Developing a portal to deliver MOOC for distance education in Asia

Tae Rim Lee

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Executive Board Director
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3 Oct. 2015 New Delih ASEM LLL
In the Tsunami of MOOCs:
What could Asian OUs do?

15 May. 2015 AAOU Web conference

Educating the WORLD Through Asia
KMOOC for Knowledge Sharing

Venue: KNOU, 3rd floor Auditorium
Date: 22 September, 2014
President Welcome Remarks

As a president of the KNOU which host this 1st KMOOC for Knowledge Sharing Workshop, it is my great honor to give the welcome address to all distinguished delegates and colleagues. This KMOOC workshop was followed by the OER movement at the open and distance learning for higher education these days. For the last ten years, information and communication technology has been growing greatly in terms of importance, sophistication, application and innovation. This remarkable growth, provide the spring board on big changes in higher education using OER and MOOC. Now these changes require us to address challenges such as quality assurance, adequate accountability, reusability and interoperability that must be addressed to ensure effective and efficient application of MOOC in higher education.

The KMOOC project initiated by KNOU was a scaffold towards developing such a partnership through MOOC cooperation in Korea and forward to Asia and Europe, Africa and Latin America by not only understanding cultural diversity but also building shared values such as openness, trust, collaboration, and knowledge sharing. Through this 1st KMOOC workshop we hope to establish the strategic foundation for the KMOOC Network including vision, scope of activity, working groups, and their activities.

Thank you very much.

Dr. Nam Chul Cho : President of KNOU

Vice president Dong Kook Lee KNOU
Coordinator of KMOOC project.

Prof. Tae Rim Lee  Dean of KNOU Natural Science
Project manager of KMOOC

<table>
<thead>
<tr>
<th>Agenda</th>
<th>Tuesday, 22nd September</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening</td>
<td>Chair: Prof. Tae Rim Lee (Dean of KNOU) Natural Science</td>
</tr>
<tr>
<td>09:30 ~ 10:00</td>
<td>Welcome Remark : Nam Chul Cho (President of KNOU)</td>
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<td></td>
<td>Welcome Remark (video) :</td>
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<tr>
<td></td>
<td>Sir John Daniel (Chair, International Quality Group, Former President of OU UK)</td>
</tr>
<tr>
<td></td>
<td>Fred Mulder (UNESCO Chair in OER, Former President of OUNL)</td>
</tr>
<tr>
<td>10:00 ~ 10:30</td>
<td>Keynote Presentations</td>
</tr>
<tr>
<td></td>
<td>1. MOOCs in ODL : What are the issues and challenges?</td>
</tr>
<tr>
<td></td>
<td>Dr. Kwang Jo Kim (Director of UNESCO-Bangkok)</td>
</tr>
<tr>
<td>10:30 ~ 10:50</td>
<td>Group Photo &amp; Coffee Break</td>
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<tr>
<td></td>
<td>Chair: Prof. Tae In Han(KNOU)</td>
</tr>
<tr>
<td>10:50 ~ 11:20</td>
<td>2. Mobile learning for MOOCs</td>
</tr>
<tr>
<td></td>
<td>Prof. Mohamed Ally (Professor of Athabasca University, Canada)</td>
</tr>
<tr>
<td>11:20 ~ 11:50</td>
<td>3. KMOOC Agenda in Korea</td>
</tr>
<tr>
<td>12:00 ~ 13:00</td>
<td>Lunch</td>
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<td></td>
<td>Chair: Dr. Jang Sang Hyun(KERIS)</td>
</tr>
<tr>
<td>Afternoon Session</td>
<td>4. Future of KMOOC for Knowledge Sharing Society</td>
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<tr>
<td></td>
<td>Dr. Duk Hoon Kwak (Vice Chairman of Sigongmedia Company, Hon. Professor KNOU)</td>
</tr>
<tr>
<td>13:00 ~ 14:00</td>
<td>5. KMOOC in Japan</td>
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<tr>
<td></td>
<td>Prof. In Sung Jung (Professor of Christian University, Japan)</td>
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<tr>
<td>13:30 ~ 14:00</td>
<td>6. SNUI MOOC in Seoul National University</td>
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<td></td>
<td>Prof. So Won Jang (Professor, Director of Institute of Lifelong Learning, SNU)</td>
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<tr>
<td>14:30 ~ 14:50</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>14:50 ~ 15:20</td>
<td>Chair: Prof. In Sung Jung (ICU Japan)</td>
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<tr>
<td></td>
<td>7. KOCW of KERIS trans to the KMOOC</td>
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<td></td>
<td>Dr. Sang Hyun Jang (Director of the University Information, KERIS)</td>
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<tr>
<td>15:20 ~ 15:50</td>
<td>8. KMOOC in Korea Cyber University</td>
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<td>Prof. Yeon Wook Im (Hanyang Cyber University, President of KAEIM)</td>
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<tr>
<td>15:50 ~ 16:20</td>
<td>9. KMOOC with Credit Bank of NILE</td>
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<td></td>
<td>Dr. Jae Hyun Kwon (Director of National Project, National Institute Lifelong Education)</td>
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<tr>
<td>16:20 ~ 16:50</td>
<td>10. KMOOC for ODL</td>
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<td></td>
<td>Prof. Tae Rim Lee (Dean of Natural Science KNOU)</td>
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<tr>
<td>16:50 ~ 17:00</td>
<td>Wrap up session</td>
</tr>
<tr>
<td>18:00 ~ 20:00</td>
<td>Dinner : 5th floor Terrace KNOU main building</td>
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</tbody>
</table>
# 28th Annual Conference of the Asian Association of Open Universities

**28-31 October 2014 • Hong Kong, China**

## High-Level Executive Workshop on MOOCs
for Presidents, Rectors, Vice-Chancellors of Asian Open Universities only

<table>
<thead>
<tr>
<th>Date:</th>
<th>27 October 2014</th>
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</thead>
<tbody>
<tr>
<td>Time:</td>
<td>1:30 pm – 6:15 pm</td>
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<tr>
<td>Venue:</td>
<td>D2009, Jubilee College, OUHK, 81 Chung Hau Street, Kowloon, Hong Kong</td>
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</tbody>
</table>

### Key Facilitators
- **Professor Fred Mulder**: UNESCO ICDE Chair in Open Educational Resources; former Rector, OUNL; Chair, EADTU's OpenupEd MOOCs initiative
- **Mr Abel Caine**: UNESCO Programme Specialist, Open Educational Resources

### Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>1:30 pm</td>
<td>Registration</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Welcome and goals of the Workshop</td>
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<tr>
<td>2:00 pm</td>
<td><strong>Prof Yui-Shan Wong, AAOU and OUHK President</strong></td>
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<tr>
<td></td>
<td>Introduction and opening remarks</td>
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<tr>
<td></td>
<td><strong>Dr K C Li, AAOU Secretary-General</strong></td>
</tr>
<tr>
<td>2:15 pm</td>
<td>MOOCs scenarios for OUs in a global context</td>
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<tr>
<td></td>
<td>**How to respond to OER, MOOCs, and Open(ing up) Education as global</td>
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<tr>
<td></td>
<td>movements?</td>
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<tr>
<td></td>
<td><strong>Prof Fred Mulder and Mr Abel Caine</strong></td>
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<tr>
<td>2:45 pm</td>
<td>Q&amp;A and Discussion</td>
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<td></td>
<td>Moderated by <strong>Dr K C Li</strong></td>
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<tr>
<td>3:15 pm</td>
<td>OpenupEd MOOCs in Europe: Characteristics / state of play</td>
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<tr>
<td></td>
<td><strong>Prof Fred Mulder</strong></td>
</tr>
<tr>
<td>3:35 pm</td>
<td>Q&amp;A and Discussion</td>
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<tr>
<td></td>
<td>Moderated by <strong>Dr K C Li</strong></td>
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<tr>
<td>4:05 pm</td>
<td>Coffee and tea break</td>
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<tr>
<td>4:30 pm</td>
<td>Spotlight on MOOCs Initiatives of Asian OUs</td>
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<td></td>
<td>Presentations by invited speakers (5 minutes + Q&amp;A time per presentation):</td>
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<td></td>
<td><strong>Prof Tae-hun Lee, Korea National Open University</strong></td>
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<tr>
<td>5:15 pm</td>
<td>Globalizing OpenupEd in Asia and a role for AAOU?</td>
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<td>Discussion — moderated by <strong>Dr K C Li</strong> and <strong>Prof Fred Mulder</strong></td>
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<tr>
<td>5:45 pm</td>
<td>From workshop to work plan?</td>
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<td></td>
<td>Wrap-up — moderated by <strong>Mr Abel Caine</strong></td>
</tr>
<tr>
<td>6:05 pm</td>
<td>Closing</td>
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<tr>
<td></td>
<td><strong>Prof Yui-Shan Wong and Prof Fred Mulder</strong></td>
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<tr>
<td></td>
<td>Dinner at Star of Canton, Tsim Sha Tsui</td>
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<tr>
<td>Time</td>
<td>Session Title</td>
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</tr>
<tr>
<td>13:00-17:00</td>
<td>LESSONS FROM FUTURELEARN</td>
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<td>PROVIDING MOOCS FOR UNPLANNED LEARNING</td>
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<td></td>
<td>A COMPREHENSIVE STUDY OF MOOCS IN SOUTH AFRICA</td>
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<td>THE CF4DEV MOOC: NEW LEARNING PATHWAYS TOWARDS UNCOVENTIONAL FINANCING FOR DEVELOPMENT</td>
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<td>IDBx: MOOCS ON ECONOMIC AND SOCIAL DEVELOPMENT IN LATIN AMERICA AND THE CARRIBBEAN</td>
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<td>DEVELOPING MOOCS FOR MATHEMATICS TEACHER TRAINING FOR SECONDARY SCHOOLS</td>
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**ICDE MOOC**

**TEA/COFFEE/SNACKS ONLY FOR REGISTERED WORKSHOP PARTICIPANTS AT THE RESPECTIVE WORKSHOP VENUES**

<table>
<thead>
<tr>
<th>Venue</th>
<th>Experience</th>
<th>Presenter(s)</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LETSATSICOFFERENCE CENTRE</td>
<td>STUDENT SUCCESS AND RETENTION IN MOOCS AND BLENDED LEARNING</td>
<td>Ramesh G Nair and Vasudha Rao (St Francis Institute of Management and Research, Borivali, India)</td>
<td></td>
</tr>
<tr>
<td>MOOCS4D-II</td>
<td>ACHIEVING FIVE TIMES THE RETENTION IN A MOOC COURSE THROUGH INTERACTIVE LEARNING</td>
<td>Satesh Bidaisee and Glen Jacob (St George’s University, Grenada)</td>
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<tr>
<td>14:00-16:40</td>
<td>A NEW WORLD, DEMANDING NEW SKILLS: EXPLORING DIGITAL LITERACIES THROUGH FULLY ONLINE ENGAGEMENT</td>
<td>Liesl Scheepers (Varsity College, South Africa)</td>
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<td>A MOOC IN BLENDED LEARNING CONTEXT TO ACHIEVE ACTIVE LEARNING: A FLIPPED CLASSROOM MODEL</td>
<td>Stephan Oeyen and Luk Indesteeghe (University College Leuven-Limburg, Belgium)</td>
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<tr>
<td></td>
<td>INNOVATIVE ANDROGOGICAL APPROACH THROUGH BLENDED LEARNING (MOOCS AND MOBILE BUS LEARNING) FOR INDIAN ONLINE AND DISTANCE EDUCATION LEARNERS</td>
<td>Ajit Chauhan, Nishant Rai and Chitresh Bhat. Amity University, Uttar Pradesh.</td>
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<td></td>
<td>FROM OCW TO MOOCS: PRACTICES AND OPTIONS OF THE OPEN UNIVERSITY OF CHINA</td>
<td>Du Ruo, Zhang Tong, Zhou Xiang (Open University of China, China)</td>
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<td>MOOCS’ CONTRIBUTION TO STAFF DEVELOPMENT AND CAPACITY BUILDING: AUSTRALIAN UNIVERSITY</td>
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WOW! EUROPE EMBRACES MOOCS

30 November: HOME Conference

WOW! Europe embraces MOOCs

Date: 30 November 2015 09:00-18:00

Venue: Multimedia Classroom of the International Telematic University UNINETTUNO. The full address: Piazza Grazioli 17, 00186 Roma

Programme Committee:
- Darco Jansen (EADTU) - Chair
- Nicola Paravati (UNINETTUNO)
- Maria Amata Garito (UNINETTUNO)
- Mark Brown (DCU)
- Antonio Teixeira (UAb)
- Cengiz Hakan Aydin (Anadolu)
- Lourdes Pérez Sánchez (UNED)
- Fred de Vries (OUNL)
- Arne Kjaer (DAOU)

Participation only on invitation (limited to 60 attendees)

Preliminary programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>09:00 - 09:30</td>
<td>Registration / coffee</td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td>Opening ceremony</td>
</tr>
<tr>
<td>09:45 - 10:15</td>
<td>MOOC strategies Europe chaired by António Teixeira</td>
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<tr>
<td>10:15 - 11:15</td>
<td>Pedagogical approaches in European MOOCs</td>
</tr>
<tr>
<td>11:15 - 11:45</td>
<td>Coffee break</td>
</tr>
<tr>
<td>11:45 - 12:45</td>
<td>Shared services in European MOOC contexts</td>
</tr>
<tr>
<td>12:45 - 14:00</td>
<td>Lunch</td>
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</table>

UNINETTUNO’s Multimedia Classroom

Full address: Piazza Grazioli 17, 00186 Roma
KNOU

• QA of AMOOC For LLL
• AAOU MOOC Agenda
• Motivation & Background
• AAOU MOOC Agenda

Remarks
Motivation

- Variety of Educational Demand
- Change of Paradigm in Distance Education
- Increase of Access to MOOC
- Enlargement of Educational Space
- Explore Various Levels in a Teaching – Learning MOOC System
- Standardization of MOOC for Open & Distance Education
KNOU MOOC
Correspondence by Post mail
Marking on Post mail Report
Marking on Post mail Report
KNOU MOOC by Cable TV
KNOU

Tele-conferencing class configuration

From Firenze – to Seoul - 8 city at Korea

Seoul

Firenze, Italy

10 cities at Korea
From Firenze – to Seoul - 10city at Korea
From Firenze – to Seoul- 10 city at Korea

KNOU
Tele-conferencing class configuration
KNOU
Tele conferencing class configuration
Tele conferencing class configuration
KMOOC Background in Korea

National Basic Information System (mid-1980s)

Edutopia concept (1990)

Virtual University Trial Project (1998)


U-Learning (2006)

Smart Learning (2010)

OER & MOOC (2014)
Education 3.0 Class: “a” Flipped Learning

Interactive Class

- No Lecturing

Problem-Based, Collaborative, Active

Interaction in Class

- Q&A
- Discussion
- Team Learning/Task
- Interactive Exercise
- Evaluation
- Presentation
- Labs

Team Learning + TA Support

Online Self-Learning

- Lecture Video
- Lecture Slides
- Textbook
- Quiz & HW
- Virtual Lab

Online Interaction

- Query Search
- Interactive Watching
- Q&A
- Inform. Sharing
- Discussion
- Authentication
- Evaluation

MOOC or e-Learning

Flipped Learning: Interactive Class + Online Self-Learning
MOOC for Offline Classes

MOOC

Import & Use Online Lectures

Produce & Export Online Lectures

Off-line Classes with No Lecturing
KAIST’s Strategies: e-KAIST

Collaborate

Global Collaborative e-Learning

Transform

Open

Education 3.0
Interactive Classes

Global MOOC

KOOC (KAIST MOOC)
MOOC Ecosystem

- **Industry**
  - Train employees
  - Jobs

- **Campus Students**
  - Opportunities
  - Feedback/Acknowledgment
  - Quality Teaching
  - Quality Lectures

- **MOOC Platforms**
  - Recognition/Incentives/Motivation
  - Fame/Reputation
  - Revenue Sharing?

- **Professors**
  - Better Capabilities, Knowledge
  - Flexibilities

- **“Social” Students**
  - Opportunities
  - Fame/Reputation

- **Universities**
  - Feedback/Acknowledgment
  - Quality Lectures

ChosunBiz, Smart Cloud Show 2014
KOOC (KAIST Open Online Course)

- 30~40 courses in 2015
- Sharing knowledge with people in industries, research institutes, venture companies, universities, high schools, etc.
- Innovation for KAIST students, faculty, staff and alumni
- Collaboration with existing MOOCs and IT businesses.
# KAIST at Coursera

<table>
<thead>
<tr>
<th>Course</th>
<th>Session</th>
<th>Instructor</th>
<th>Enrollment</th>
<th>Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction to Acoustics</strong></td>
<td>5/12~6/15 (5 weeks)</td>
<td>Y.H. Kim (ME)</td>
<td>10,921</td>
<td>5%</td>
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<td></td>
<td></td>
<td></td>
<td>145 countries</td>
<td></td>
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<td></td>
<td>(emerging countries 34%)</td>
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<tr>
<td><strong>Introduction to Light, Color &amp; Life</strong></td>
<td>5/26~7/13 (6 weeks)</td>
<td>Y.G. Park (Physics), C.H. Choi (Bio &amp; Brain Eng.), H.J. Seok (Industrial Design)</td>
<td>7,835</td>
<td>6%</td>
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<td>141 countries</td>
<td></td>
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<td></td>
<td>(emerging countries 39%)</td>
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<tr>
<td><strong>Supply Chain Management: A Learning Perspective</strong></td>
<td>6/16~8/11 (8 weeks)</td>
<td>B.W. Kim (Business School)</td>
<td>20,352</td>
<td>6%</td>
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<td></td>
<td>175 countries</td>
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<td></td>
<td>(emerging countries 47%)</td>
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Joined in Oct. 2013, First in Korea

First learned of KAIST through the course
MOOC Environment in Korea

- High-speed Internet services
  - World’s highest Broadband diffusion rate
    (World Economic Forum, Feb. 2011)
  - Broadband coverage is over 98% of small and medium cities and rural areas
  - Number of Broadband Users: 11.6M
    (MOIC, Sept. 2010)

- Population using Internet
  - Number of Internet Users: 28.6M (KRNIC, June 2010) about 64% of the national population over six years of age are using the Internet
  - 90% of Koreans in their 20s have Internet access
Progress of Adapting ICT in Education in Korea

**Initial Infra. Stage** (1996 ~ 2000)
- National Teaching-Learning Center · EDUNET

**ICT Utilization Stage** (2001 ~ 2003)
- Education Resources Sharing System

**e-Learning Stage** (2004 ~ 2005)
- HRD for knowledge based society
- e-Learning Project

**u-Learning Stage** (2006 ~)
- u-Korea Lifelong Learning Society
- u-Learning Project

**Strategic Point**
- Personal Mobile Device
- Tablet PC

**Progress of ICT Utilization**
- 1PC per 25 Students
- 1 PC per 7 Students
- 1 PC per 5.5 Students
Increasing Availability of Computer at School

Number of computer per student as reported by schools, in PISA 2000, 2003 and 2006

## MOOC History at KNOU

<table>
<thead>
<tr>
<th>Year</th>
<th>Events</th>
</tr>
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</table>
| 1998 | - Starting e-Learning operating program  
       - Starting Korea Virtual Campus (KVC) |
| 2001 | - Establishment of e-Learning center  
       - Start of Graduate School Program (4 Departments) |
| 2002 | - Building of e-Learning hub site ‘E-Campus’  
       - Chairman Univ. of KVC |
| 2008 | - Building of m-Learning hub site ‘U-Campus’  
       17 departments of online graduate school |
## MOOC History at KNOU

<table>
<thead>
<tr>
<th>Year</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 2004 | - Extension of two departments in Graduate School  
- e-Learning contents development  
Funded by Ministry of Education & Human Resources Development  
(US $340,000, 13 subjects) |
| 2011 | - OER for ODL  
Prime college for 40-50 age group |
| 2015 | - KNOU MOOC for LLL  
Prime college Hub Campus |
KNOU MOOC-Campus

- Graduate School Program
- Undergraduate School Program
- Continuous Education Program
- Global MOOC
- OER
- Prime College Hub Campus
KNOU Global MOOC Campus

KNOU Global MOOC

- Introductory Computer
- Water Quality
- Statistics
- History of Economy
- Korean Culture
- Korean Economic Development
- Korean History
- Click Korean!
ICT adaptation in ODL
Definition of ICT in Education

Comprehensive approach to innovate education systems, methods, and management through Information Communications Technology

• Restructuring education system
• Diversifying teaching-learning methods & practices
• Engaging all stakeholders of education and adapting rapid to changes in society and the environment
• Enhancing education efficiency, effectiveness, and productivity

❖ ICTs refer to all technologies which can transmit, store, create, share or exchange information, including radio, television, video, DVD, telephone, mobile phone, satellite systems, computer and Internet
Scope of ICT in Education

- ICT as a subject (i.e. computer studies)
- ICT as a tool to innovate teaching-learning practice (i.e. digital content, multimedia, teaching-learning methods, learning environment)
- ICT as an administrative tool (i.e. education management information systems (EMIS))
- ICT as an expanding learning opportunity (i.e. distance learning, e-Learning)
- ICT as a facilitator of higher-order thinking skills (i.e. learner-centered, self-directed learning, tailored learning)
Availability/use of computer and student achievement in math

Does ICT promote student learning?
Access to ICT and Student Achievement

Source: PISA 2003 Data Analysis
Does ICT promote student learning?
Results of Intel “Learn Programme”

Learning outcomes (2006)

- Collaboration: 4.06
- Critical Thinking: 3.76
- Technical Skills: 4.05
• **ICT Transforming Education: A Regional Guide**

to guide the teachers to move upwards the four-stages of ICT-Pedagogy Integration
Components of MOOC

- **Technology**
  - LMS
  - ASP/ESP
  - Multimedia
  - Training delivery methods
  - Operation
  - System Reference

- **Contents**
  - Row data
  - Original Draft

- **Service**

**+**

- **Learners**
Construction of MOOC contents

- Video clip
- Text
- Audio clip
- Flash
- Imported Document

Data Formation Based on DTD

GVA Author HTML

Student Contents

- Construction of Contents based on Time Line
- Management of object based contents
- Personalized Contents
- Reusable and Just in Time Assembly
Smart Learning for KNOU MOOC

Smart Technology with ICT → Smart Learning

A conductive & effective IT-based, learner oriented learning for learner’s different learning style & abilities with mobile devices

S: Social, Self-directed, Speed
M: Module, Mobility, Micro-learning
A: Autonomy, Active, Assessment
R: Relationship, Reflection, Remix
T: Transfer, Time-saving, Trendy
Smart Learning Characteristics

- Smart technology, smart device based learning
- Intellectual, adaptive, customized learning
- Social interaction & cooperative learning
- Formal/non formal blended learning
- Learning for ability to thinking & solving problem
Value and Role of Smart Learning for HE

Smart Learning model for HE
Smart Learning model for HE

Prefer technology for HE
- Recognition of pre experience of learning
- Flexible schedule for learning
- Active Interactivity
- Blended style
- Network with peers

Smart Learning characteristics
- Intellectual customized self initiated learning
- Dynamic interactivity
- Formal/non formal combined learning
- Group Intelligence

Value and Role of Smart Learning for HE
- Support for high quality life
- Humane communication & Learning network construction
- Easy accessibility & providing customized learning
- Adaptation to the individual and social change
Agenda for Smart learning for HE

Role of Smart Learning for HE

- Support for Need of HE
- Humane communication & Learning network
- Easy accessible system
  - Customized contents
- Adaptation for individual and social change

Agenda for Smart learning

- Extend smart learning with dynamic ICT devices and join with learning network
- Support for learning system and provide dynamic communication channel
- Construction of portfolio for save the learners performance
  - Accreditation for credit
- Guideline and road map for learner and dynamic channel for communication
Layout for smart learning of HE
Smart learning system for HE

- Personal currier base flexible coursework system
- Availability of exchange with prerequisite learning
- Flexible and keep standard for hub university
- System for smart learning paradigm with trend change

Construction of scenarios of smart learning and system configuration and design
Layout for Smart Learning System for HE
m-Learning at KNOU

The socializing powers of mobility and wirelessness could expand the drive into collaboration.
m-Learning
at KNOU MOOC
m-Learning at KNOU

(a) Main menu  (b) My courses  (c) Video lecture

m-Learning
Class
Admin.
Info.
Academic
Info.
System Configuration for Mobile Learning

Provide Composite Solution of On and Off line Direct Connection between the LMS for KNOU U-Campus and KT Mobile Solution

Professor/Student

Students Mobile Phone

Pop Up Campus

KNOU MOOC Homepage

Student PC

LG WCDMA Networks

LG

Contents Server

Mobile Server

Database Management

KNOU Academic Affairs DB

Web server

Data management

KNOU Academic Affairs DB

eLC UOC
Support for the student’s Mobile Learning for degree

- Provide the useful academic information for compensate the limit of off line campus activity by Mobile phone

- Mobile Lecture: Provide the Web courses and Multimedia lecture by wireless Mobile phone and connect to the on line courses as individual learning speed.

- Provide learning community for the real time sharing of the learning resources for credit

Mobile KNOU

Mobile Student ID
- User Guide
- Manage Student ID
- Student IDDL
- Academic Affairs
- Directory
- Student/Alumni

Campus News
- My Email
- Academic Calendar
- Event Announcement

My Page
- Grades
- Course Registration
- Classes/Exams
- Student Records
- Seasonal Class
- Theses
- Personal Information
- Certificates
- Class Schedule

Study tutor
- On-Line Class Schedule
- Tutor System
- Dept. Tutor
- Internet Tutor
- Regional Tutor
- Students’ Board
- Student Association
- Clubs
- Study Clubs
- Class Study Room

Mobile learning
- Mobile Lecture 1
- TV
- Radio
- AudioTape
- Internet Lecture
- My Mobile Lecture

Library
- Library Guide
- Book Search
- Book Request
- My Library
- Checkout List
- Checkout/Extension/Reservation
ASIA MOOC for LLL
The OER University concept

- Students awarded credible degree or credential
- Participating institutions grant credit for courses
- Open assessment from participating institutions
- Open student support via "Academic Volunteers International"
- Learners access courses based solely on OER
MOOC life cycle

Find

Compose

Adapt

Use

Share
ASIA MOOC Agenda
AAOU-MOOCs Survey

The information you provide in this survey questionnaire is intended for use by Asian Association of Open University (AAOU) in collecting information about massive open online courses (MOOCs).

This survey consists of 4 sections and takes approximately 20 minutes of your time to complete:

- Section 1, Institution and the respondents (4 questions)
- Section 2, Institutional information (4 questions)
- Section 3, Operation and planning of MOOCs (4~15 questions)
- Section 4, Sharable resources and copyright (9 questions)

We appreciate your cooperation on this survey. If you have any questions or concerns, feel free to contact Prof. Taerim Lee at trlee@kou.ac.kr

Very Truly,

Task Force on AAOU MOOCs
Objectives of Stage 1

To establish a hub of Asian open education networks by developing the AAOU MOOCs platform/portal

1. To conduct a comprehensive need assessment: Assessing the multiple levels of needs for the AAOU MOOCs platform/portal

2. To identify effective a model/format of the AAOU MOOCs platform/portal in terms of contents, designs, and delivery methods
AAOU MOOCs Platform/Portal

Level 1: Learners

Level 2: Institutions

Level 3: Nation

Level 4: Region/Globe
AAOU MOOCs Platform/Portal

Level 1: Learners

- Who may be major users of this platform/portal?
- How would this platform/portal meet heterogeneous needs of diverse populations?
- Why would the users utilize this platform/portal over other open educational options?
AAOU MOOCs Platform/Portal

**Level 2: Institutions**

- What are MOOCs being provided as of now?
- How does each institution evaluate outcomes and/or problems of her MOOCs thus far?

**Level 3: Nation**

- How would AAOU MOOCs serve educational needs in each participating country?
- How may the AAOU MOOCs initiative be incorporated into each country’s higher education system?
- What would be governmental supports/reactions in each country?
How would this initiative contribute to the realization of open education in Asia?

What would be contributions of this initiative to the global MOOCs movement?

How much attention/support would be paid to this initiative by prominent global NGOs?
2. To identify effective a model/format of the AAOU MOOCs platform/portal in terms of contents, designs, and delivery methods

✓ What would be the range of inclusion/exclusion of MOOCs?
✓ What would be specific fields or subjects of MOOCs to be delivered?
✓ How could the MOOCs be grouped in the platform/portal?
✓ What would be the most effective design for the AAOU MOOCs platform/portal?
✓ What would be considerations for tailoring the delivery interface?
3. To examine the useful development/management system for the AAOU MOOCs platform/portal

✓ Who will be in charge of the management of the AAOU MOOCs system?
✓ What would be the available resources for the management of the system?
✓ What would be fair and efficient regulations for the development and management of the AAOU MOOCs?
KNOU MOOC Project Team

KNOU IDE
Prime College

Coordinator
Dong Kook Lee

Project Manager
Taerim Lee
- Project Agenda
- Contact with external Inst.
- Project Meeting details
- Mooc Survey

Advisory Group
- Sir John Daniel
  (Former Rector of OU Britain)
- Prof. Fred Mulder
  (Former Rector of OU Netherland)
- Dr. Kwangjo Kim
  (Director of UNESCO Bangkok)
- Contact with external Inst.
- Project Meeting details
- Mooc Survey

Coworker

Dr. Kukhoon Kwack
Vice President of SIGONG Comp.

Prof. Sowon Jang
SNU
- Trend of ICT
- IT Industry data analysis
- Long term agenda

Prof. Yeounwook Im
Hanyang Cyber Uni
- iSNU OER
- International movement of MOOC

Dr. Sanghyun Jang
KERIS
- Cyber university MOOC
- Nationwide Network

Dr. Jaehyun Kwon
NILE
- KOCW future agenda
- Government Policy making agenda

Prof. Tae-rim Lee
KNOU
- KMOC for LIL
- Government institutional network
- Project management
- MOOC survey
- KMOOC conference
Agenda of ASIA MOOC

Concept

Guarantee of LLL for the people

ASIA MOOC Service

Educational function

Sustainable Self Realization & Promote Potentiality

Social Function

Promote the Educational welfare & Social integration
Contents of ASIA MOOC

Regular courses open to the public
List of contents: course syllabus, course level, learning time, last update, classified thesis
Video, audio, multimedia

Learning Space

Lab Space
Volunteer and group interactivity
Focus on Group Intelligence

Interaction Space
Promote Interactivity
Flash Meeting
Flash Blog
Compendium Knowledge Map

ASIA MOOC

Professionals Community
ASIA MOOC Contents model

- Design of ASIA MOOC Learning process based on contents model and components

ASIA MOOC Learning

- Learning point:
  - orientation
  - sympathy of world
  - foretaste of thesis
  - news of thesis

- Self study:
  - quiz of thesis
  - self check of thesis
  - knowledge recharge
  - prerequisites learning
  - compensatory learning

- Experiences of Field work:
  - Learning field work
  - Information of related institute

- Connection with Advance Learning:
  - Orientation of related degree
  - foretaste lecture
1) Layout of homepage

- Construction of community intelligence donation, searching, support of learning, help desk, my page
QA of ASIA MOOC
1. ASIA MOOC Contents R & D Agenda

Hub University of OER

Blended Learning OER
- old contents and new contents
- Theory and field practice
- individual learning & group learning
- credit & non credit course

Hub University
- Connection with related institute
- multi center activity & interaction
- research & education applied to fieldwork
- integrated support for information program and service

Role of OER for Blended Learning Hub University

- Providing OER contents
- Support specific service

- International collaboration

- nationwide service & higher international reputation of HE

- promote LLL through OER service
3. Strategy for construction of network

Cooperation strategy with institutions

a. Public Institute
- Contents share under the MOU
- Supply OER resources for public institute
- Cooperation with professionals at public institute

b. Private institute
- Contents sharing of public based contents in private sector
- Easy access with OER through portal and get the effect of PR
- Connection with easy access with dynamic contents of Hub university
- Cooperation with licence, women’s job opportunity

c. University
- Sharing the contents
- Sharing the course syllabus, basic information, script
- Co-host the conference which we can share the knowledge
Interesting item for QA of ASIA MOOC

Objectives, planning, strategy of institute

Construction of educational curriculum

Supporting system for human resources, management, administration, physical resources

Performance index for input vs. output
QA task agenda

1. Starting phase
   - Setting of management of administrative system
   - Setting of administrative system

2. System setting phase
   - Strengthening the role of HUB KMOOC

3. Extending phase
   - Settlement of higher education model
   - Expanding the educational service

Main objectives
- Vision & policy
- Curriculum
- Human resources
- Design & planning of course
- Evaluation of course management
- Cooperation & partnership

QA focus
- Learner support
- Physical resources
- Administration/management
BITEC MOOC Project
교육훈련 센터의 비전

유전체 입상적용 실용화 및 고도화

바이오 빅데이터 운영 플랫폼 구축 표준화, 정보공유

집단 유전체 정보 분석 전문가 육성 (MD 및 PhD)

보건의료 유전체 분야 지식세대 성장동력 확보

임상유전체

임상유전체: 사업단 기술 지원 통합분석, 표준, 공통

BITEC SNUH
실기중심 융합교육 프로그램 개발 운영

전문 BI 인력 육성

eLearning

온라인교육 방통대 OUN

이러닝 컨텐츠 구축

BITEC
이태림 교수
한국방송통신대학교 바이오정보통계학과
보건복지부 지원

HEALTH
BIG DATA
4장 빅데이터의 가치와 영향

5장 빅데이터의 분석
BITEC MOOC
Remarks

1. The initial investment for production of high quality contents and delivery service for free and open MOOC should be supported by the official fund.

2. Quality Assurance should be kept for keeping the characteristics of open and free of MOOC.

3. The future of ASIA MOOC will show the new paradigm and be a basis for LLL.
SMARTCLOUD CONFERENCE

Sept. 3rd(Wed) – 4th(Thu)
The SHILLA SEOUL Dynasty Hall

Keynote Speech I
Reinventing Education
Anant Agarwal, President, edX

Keynote Speech II
Storming the Cloud
Jason Merkoski, Former Technology Evangelist of Amazon Kindle

Keynote Speech III
Beyond MOOCs
Simon Nelson, CEO of Future Learn

Keynote Speech IV
KAIST's Perspectives on MOOC
Sung Mo Steve Kang, President, KAIST
# KMOOC Workshop Program

## KMOOC for Knowledge Sharing Workshop

**Venue:** KNOU, 3rd floor Auditorium  
**Date:** 22 September, 2014

<table>
<thead>
<tr>
<th>Agenda</th>
<th>Monday, 22nd September</th>
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<td>Opening</td>
<td>Chair: Prof. Tae Rim Lee (Dean of KNOU Natural Science)</td>
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| 09:30 ~ 10:00 | Welcome Remark: Nam Cho Cho (President of KNOU)  
- Welcome Remark (video): Sir. John Daniel (Chair, International Quality Group, Former President of OU UK)  
- Professor Fred Muller (UNESCO Chair in OER, Former President of OUNL)  
- Keynote Presentations |
| 10:00 ~ 10:30 | MOOCs in the ODE  
What are the issues and challenges?  
- Dr. Gwang Jo Kim (Director of UNESCO-Bangkok) |
| 10:30 ~ 10:50 | Group Photo & Coffee Break |
| 10:50 ~ 11:20 | Mobile learning for MOOCs  
Chair: Prof. Tae In Hani (KNOU)  
- Prof. Mohamed Ally (Professor of Athabasca University, Canada)  
- Prof. In Sung Jung (ICU Japan)  
- Mr. Chung Hong Kim (Director of the University Financial Support, Ministry of Education in Korea) |
| 11:20 ~ 11:50 | Pedagogical model for MOOCs in the Asian context  
- Prof. Mansor Fadzil (Professor of Malaysia Open University)  
- Prof. Anuchai Theerarongrachais (Deputy of TCU, Office of the Higher Education Commission Ministry of Education, Thailand) |
| 11:50 ~ 12:00 | Discussion  
- Q & A  
- KMOOC for Knowledge Sharing  
- Prof. Tae Rim Lee (Dean of Natural Science KNOU)  
- Prof. Bo Won Kim (e-ASEM Coordinator, KNOU) |
| 12:00 ~ 13:00 | Lunch |
| Afternoon Session | Chair: Prof. Bo Won Kim (e-ASEM Coordinator, KNOU) |
| 13:00 ~ 13:30 | MOOC in Japan  
- Prof. Tsuneo YAMADA (Professor of Open University Japan)  
- Prof. Jin MYOCHI (Professor of Open University Japan)  
- Prof. Mansor Fadzil (Professor of Malaysia Open University) |
| 13:30 ~ 14:00 | MOOC in Malaysia  
- Prof. Mansor Fadzil (Professor of Malaysia Open University) |
| 14:00 ~ 14:30 | MOOC in Thailand  
- Prof. Anuchai Theerarongrachais (Deputy of TCU, Office of the Higher Education Commission Ministry of Education, Thailand)  
- Prof. Bo Won Kim (e-ASEM Coordinator, KNOU)  
- Prof. Bo Won Kim (e-ASEM Coordinator, KNOU) |
| 14:30 ~ 15:00 | KMOOC for Knowledge Sharing  
- Prof. Tae Rim Lee (Dean of Natural Science KNOU)  
- Q & A |
| 15:00 ~ 15:30 | Coffee Break  
- Dr. Sang Hyun Jang (KERIS)  
- Dr. Kwak Yong Soo (Director of C & B, KERIS)  
- Dr. Kang Hoon Kim (Director of C & B, KERIS) |
| 15:30 ~ 16:00 | Several Types of e-Learning Contents for MOOCs  
- Prof. So Won Chang (Professor, Director of Extension College, SNU)  
- Prof. So Won Chang (Professor, Director of Extension College, SNU) |
| 16:00 ~ 16:30 | KMOOC in Korea Cyber University  
- Prof. Yeon Woo Kim (Director of Cyber University, President of KAEM)  
- Prof. Jeon Hyun Jang (Director of Cyber University, President of KAEM)  
- Prof. Jeon Hyun Jang (Director of Cyber University, President of KAEM) |
| 16:30 ~ 17:00 | KMOOC with Credit Bank of NILE  
- Dr. Jae Hyun Kwon (Director of National Project, NILE)  
- Dr. Jae Hyun Kwon (Director of National Project, NILE)  
- Dr. Jae Hyun Kwon (Director of National Project, NILE) |
| 17:00 ~ 17:20 | Future of KMOOC  
- Dr. Duk Hoon Kwak (Vice Chairman of SIGONmedia Comp.)  
- Dr. Duk Hoon Kwak (Vice Chairman of SIGONmedia Comp.)  
- Dr. Duk Hoon Kwak (Vice Chairman of SIGONmedia Comp.) |
| 17:20 ~ 17:40 | Wrap up Discussion  
- Prof. Ihu Rha (SNU)  
- Prof. Ihu Rha (SNU)  
- Prof. Ihu Rha (SNU) |
| 18:00 ~ 20:00 | Dinner: 5th floor Terrace KNOU main building |
Construction of AMOOC network for ODL

e-ASEM Network

To overcome the license of resources of ODL
To promote the initiate the movement of OER for ODL

How we could do...

Collection of online contents
Collection of mobile contents
Thank you!
Shukria!