



# **Asia-Pacific Ministerial Forum on ICT in Education**

**25-26 Nov 2010**



# Open and Distance Learning for Higher Education A Case from Korea



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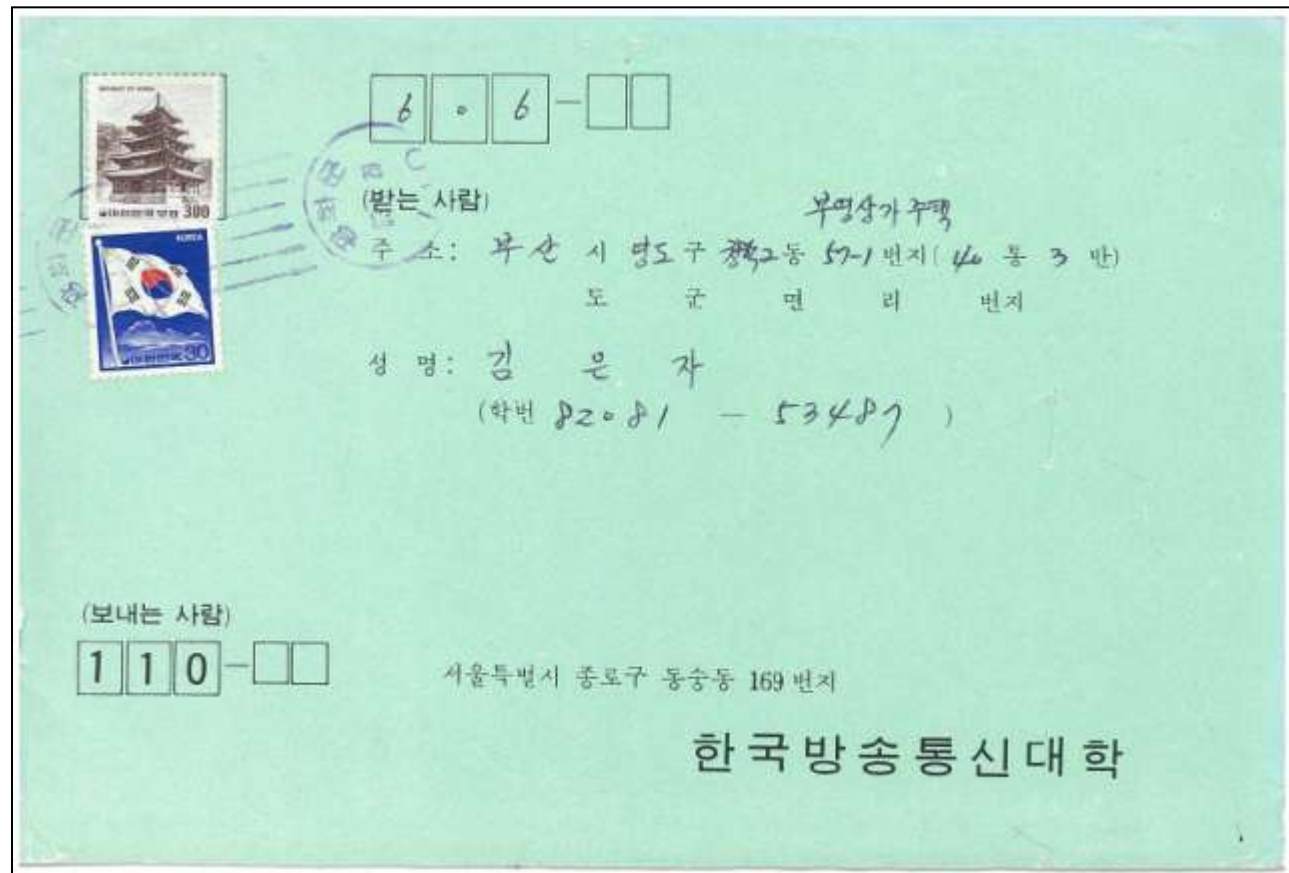
## Outline



- Motivation
- ICT history and background in Korea
- ICT for KNOU ODL
- Future Agenda
- Remarks



## Correspondence by Post mail



# Marking on Post mail Report

과목명: 韓國服飾

과제명: 2. 上古時代의 基本服飾 說明하라.

주제	과제명	과제명	과제명	과제명	과제명
1	2	3	4	5	6

과목명: 韓國服飾

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이 大陸文化를 받아들인 것은  
外族과의 접촉이 많았고,  
流亡 文化中에는 그들의  
문명광을 끼쳤다. 신라  
前後하여 親唐政策으로 唐  
과 그대요 습득하였으므로  
그 나라 服飾制度는 二重構  
되었다. **신라시대** 등대

II. 上古時代의 服飾의  
**상고시대**는 **피리, 바지, 수복, 바지**  
우리 固有服飾의 基本型  
은 中心으로 冠, 履가  
1. **저고리**는 **襦, 衫**  
로 表現하고 **저고리**는  
내더고며 直領交襟式이다  
여어 옷은 바머었다. 原  
것은 右衽이 **저고리**는 **저고리**  
기에는 別 冠의 **저고리**는 **저고리**  
관을 **저고리**는 **저고리**는 **저고리**  
다 **저고리**는 **저고리**는 **저고리**  
2. **저고리**는 **저고리**는 **저고리**  
고 **저고리**는 **저고리**는 **저고리**

우리의 固有服飾은 發展되지 못했고 또  
男女ともに 刀나 칼 短劍로 閉鎖的 服飾  
流行되었고 白衣의 崇尚은 많은 노력  
費用을 浪費하게 했다. 그리고 氣候  
변화가 심격되나 수직 옷에는 襦衣  
옷의 發展을 볼 수 있는 것이 특  
이다. **계통은 자신의 견해사에도 본문에서 一大尾**  
**하는 내용을 종합하여 감안합니다.**

參考文獻

李順媛, 韓國服飾, 한국방송통신대학출판부, 1993  
柳喜卿, 韓國服飾史研究, 민족문화추진회출판부, 1991  
金粉玉, 韓服構成, 서울대학교출판부, 1992

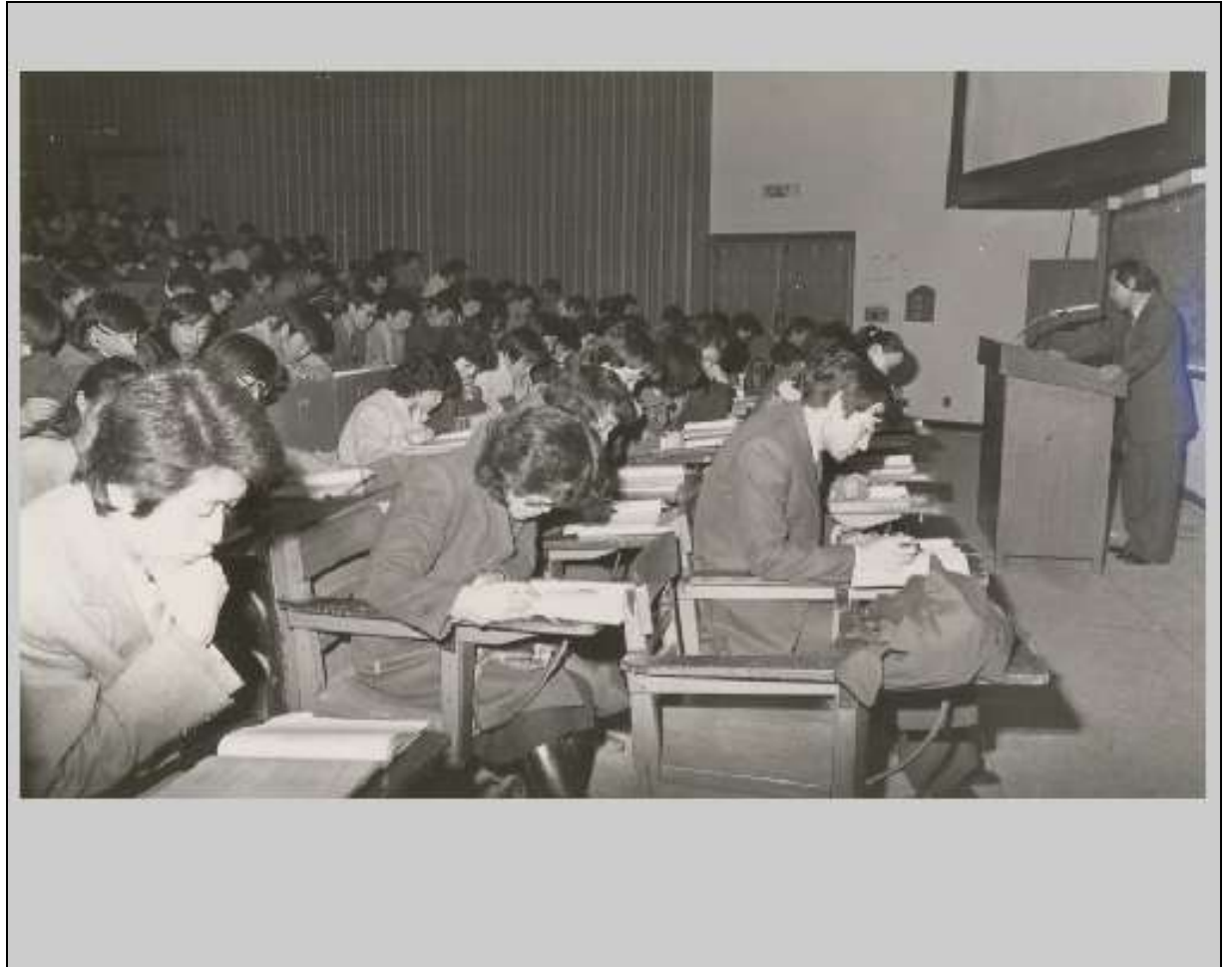
**내용은 간략히 요약하여 정리, 종합한 것은  
바라라지 않겠!**



# Feedback on Post mail Report



# Face to Face Class



# Face to Face Class





## KNOU Cable TV Opening

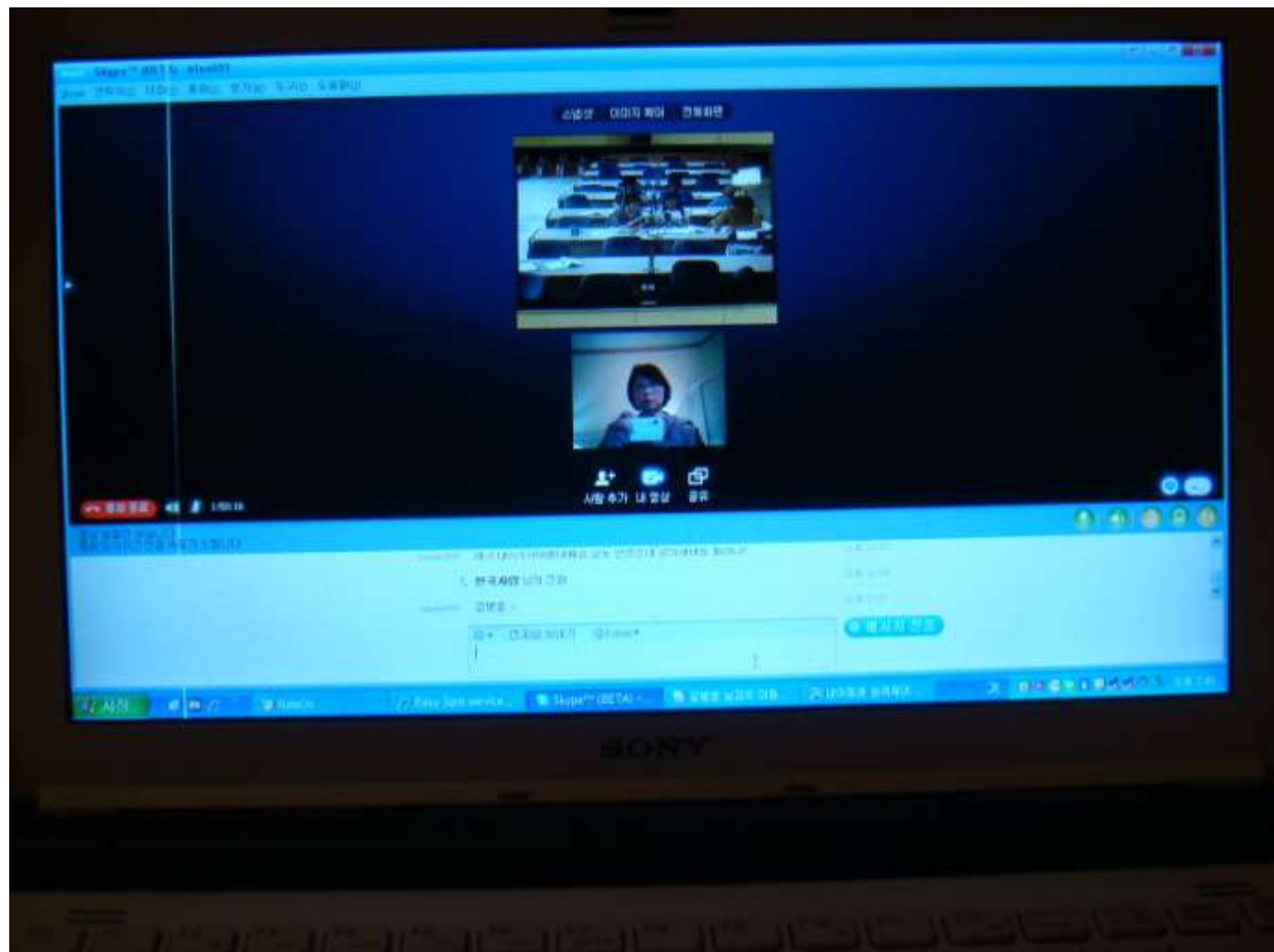


# KNOU

## Tele conferencing class configuration

Open and Distance Learning for HE:  
A Case from Korea

From Firenze – to Seoul– 10 city at Korea

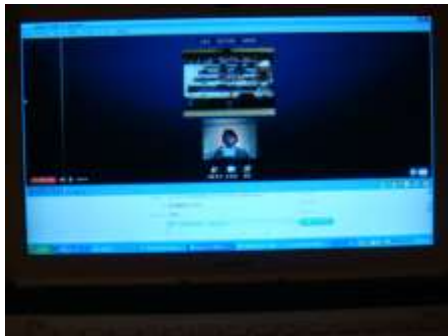
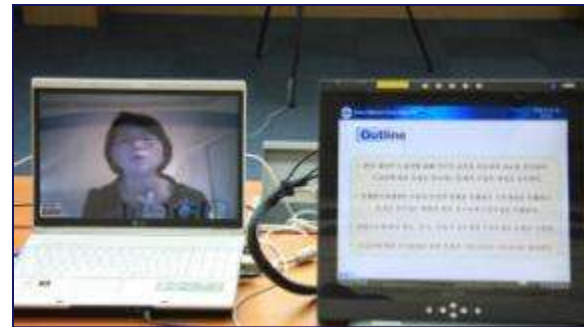


# KNOU

## Tele conferencing class configuration

From Firenze – to Seoul – 8city at Korea

Seoul



Firenze, Italy



10 cities at Korea



# KNOU

Tele conferencing  
class  
configuration

Open and Distance Learning for HE:  
A Case from Korea

From Firenze – to Seoul – 10city at Korea

Firenze



Seoul



10city at Korea

# KNOU

Tele conferencing  
class configuration

Open and Distance Learning for HE:  
A Case from Korea

From Firenze – to Seoul– 10 city at Korea





From Firenze – to Seoul– 10 city at Korea



# KNOU

## Tele conferencing class configuration

From Firenze – to Seoul– 10 city at Korea



# KNOU

Tele conferencing  
class configuration

From Firenze – to Seoul– 10 city at Korea





# KNOU

## Tele conferencing class configuration



# KNOU

## Tele conferencing class configuration

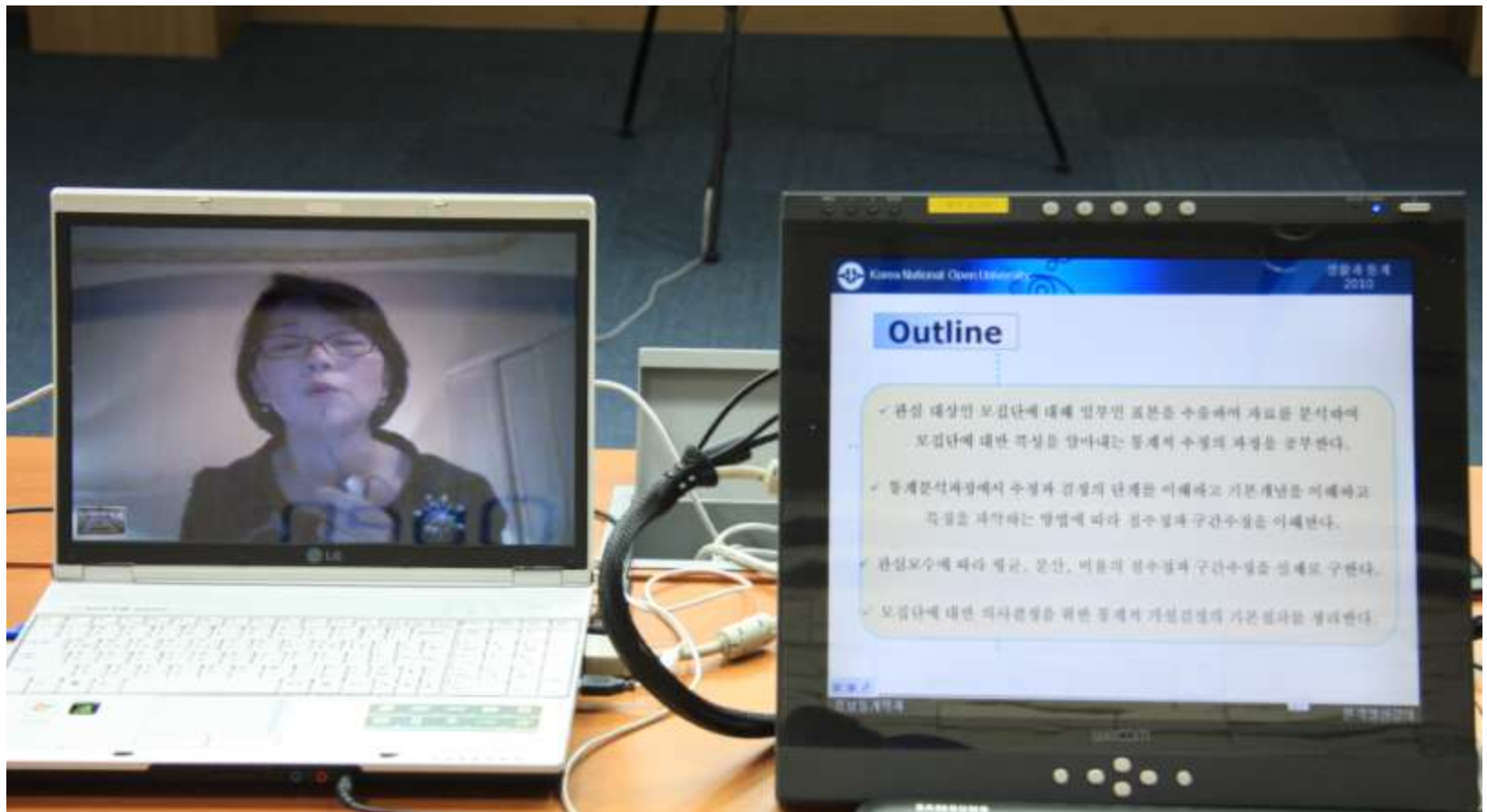
Open and Distance Learning for HE:  
A Case from Korea





## KNOU Tele conferencing class configuration

Two laptop at Seoul main campus



# KNOU

## Tele conferencing class configuration



KNOU

Tele conferencing  
class configuration

Open and Distance Learning for HE:  
A Case from Korea



인천

SAMSUNG



# Characteristics of Students

<Table 1> Distribution of bachelor students' admission to KNOU

Year <sup>4)</sup>	2005 <sup>4)</sup>	2006 <sup>4)</sup>	2007 <sup>4)</sup>	2008 <sup>4)</sup>	2009 <sup>4)</sup>
Number bachelor admission	20,835 (19.9%)	16,699 (6.8%)	16,238 (15.9%)	15,671 (14.3%)	9016 (8.3%)
Total	104,724.	99,061	102,268	109,311	108,367



<Fig.1> Trend in students' enrollments in KNOU according to their education level

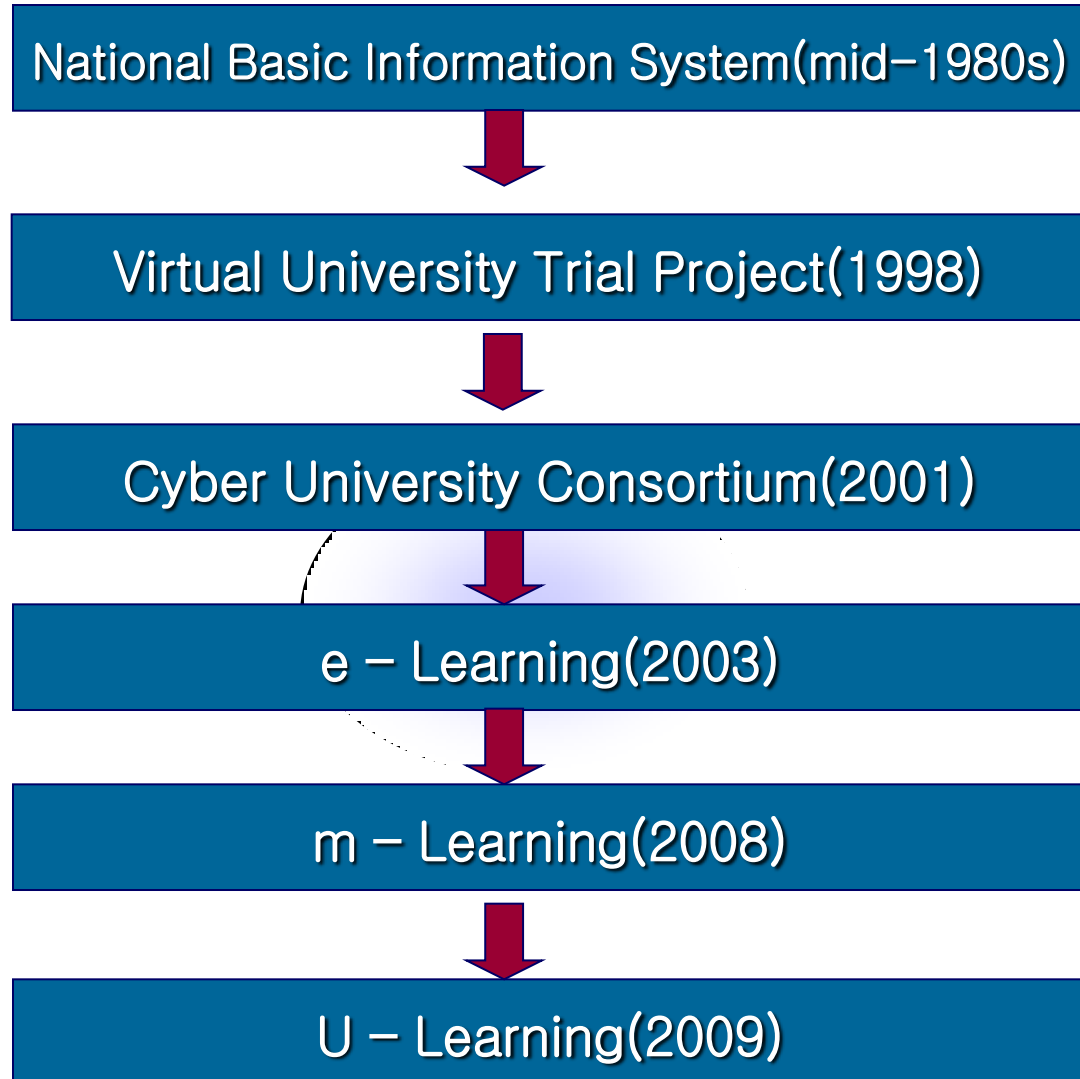
## Motivation

- **Variety of Educational Demand**
- **Change of Paradigm in Distance Education**
- **Easy Access to W.W.W.**
- **Enlargement of Educational Space**
- **Explore Various Tools in a Teaching – Learning System**
- **Standardization of e-Learning m-Learning**





## ICT Background in Korea

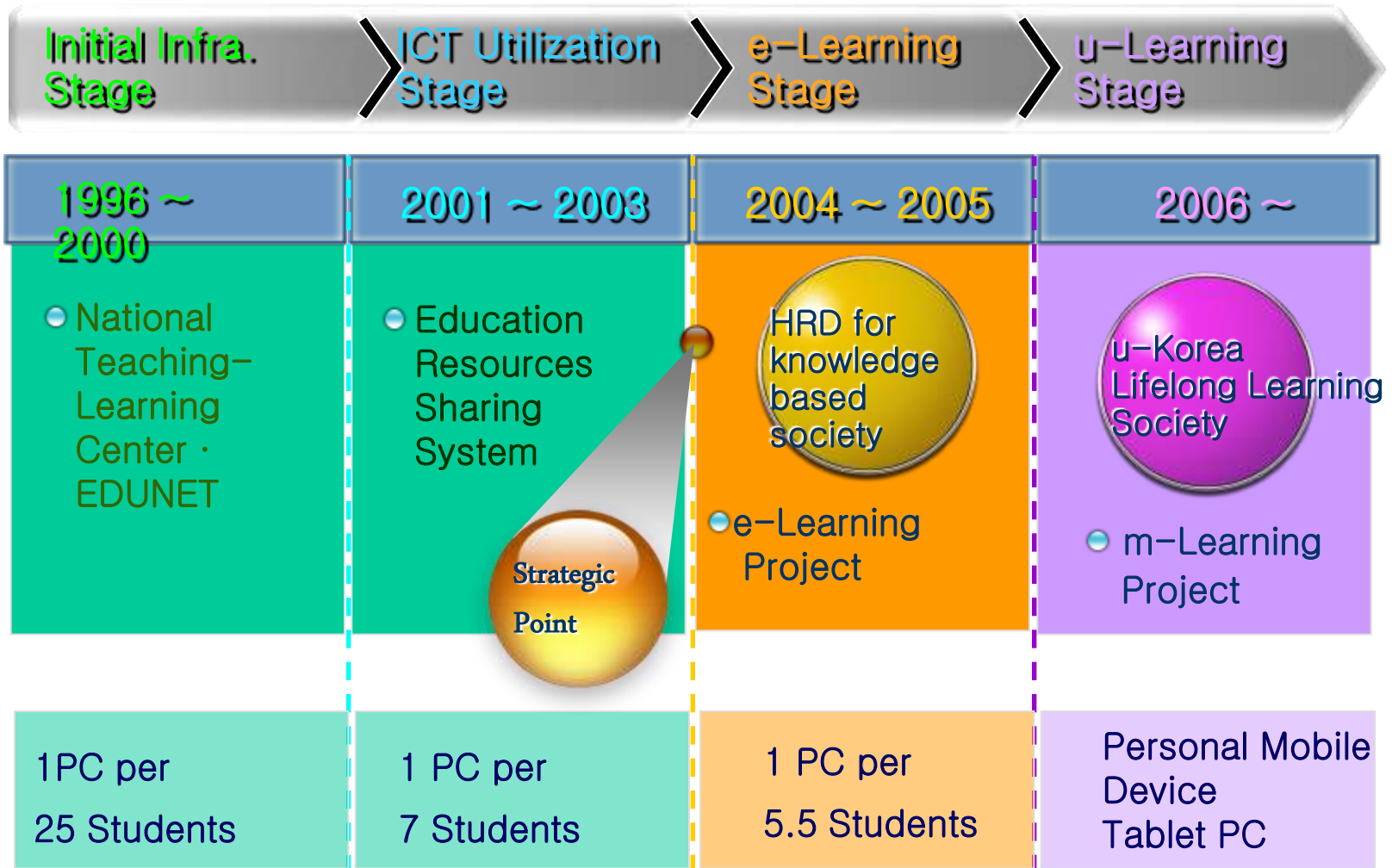


## internet Environment in Korea

- ❑ High-speed Internet services
  - World's highest Broadband diffusion rate  
(World Economic Forum, Feb. 2003)
  - Broadband coverage is over 98% of small and medium cities and rural areas
  - Number of Broadband Users : 11.6M  
(MOIC, Sept. 2003)
- ❑ Population using Internet
  - Number of Internet Users: 28.6M (KRNIC, June 2003) 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



## e-Learning History at KNOU



1998

- Starting e-Learning operating program
- Starting **Korea Virtual Campus(KVC)**

1999

- ICCU Membership & getting started operating program(2 courses development)
- Chairman Univ. of **ICCU** operating committee

2000

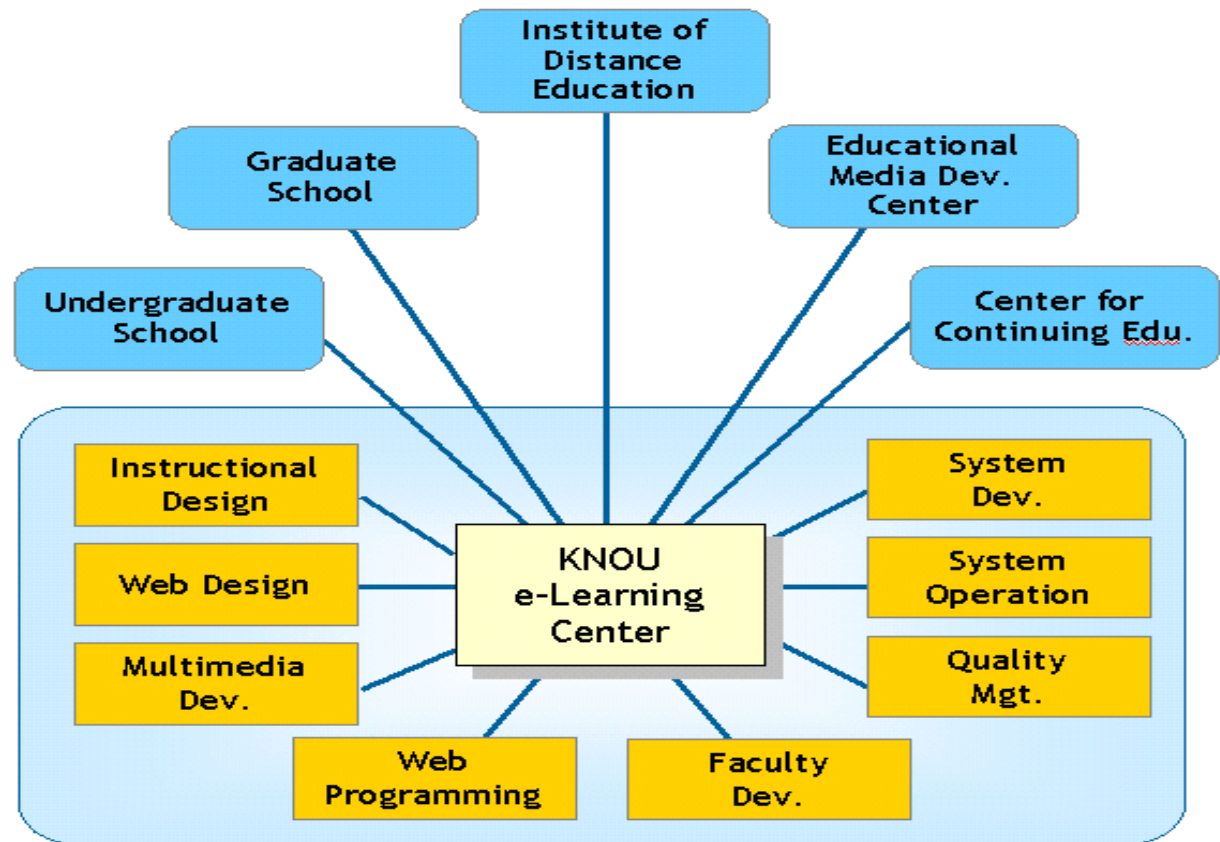
- Start of ICCU program
- Expansion of development of web-based contents

2001

- Establishment of **e-Learning center**
- Start of Graduate School
- Program(4 Departments)

## Establishment of Cooperative Organization

- ◆ e-Learning Center KNOU builds a cooperative system with the 5 institutions related to e-Learning at KNOU.





## e-Learning History at KNOU



2002

- Building of e-Learning hub site  
**'E-Campus'**
- Chairman Univ. of KVC

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)

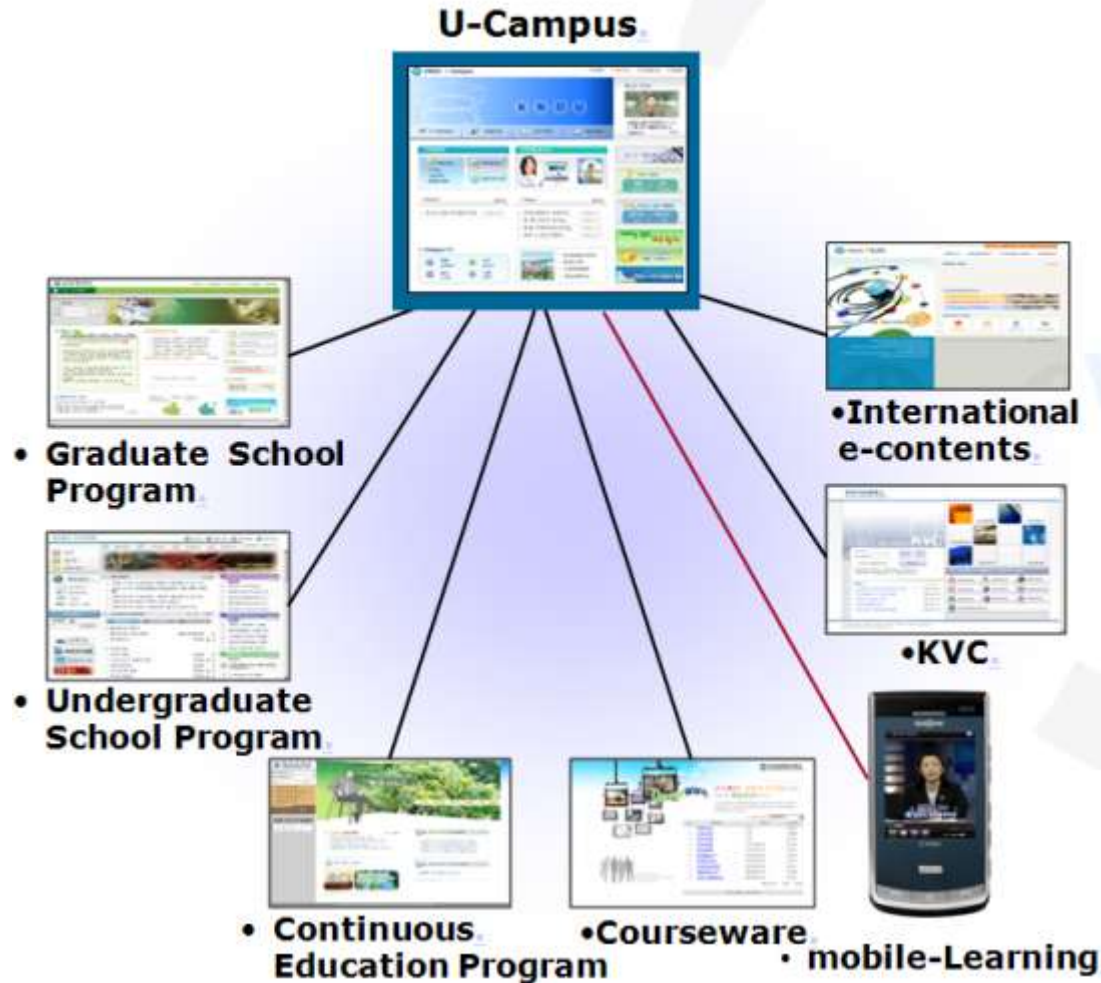
2005

- e-Learning contents development  
Funded by Ministry of education &  
human resources(US \$1,150,000)  
development(34 subjects)

2008

- Building of m-Learning hub site  
**'U-Campus'**

# U-Campus Operation



# What is e-Learning?

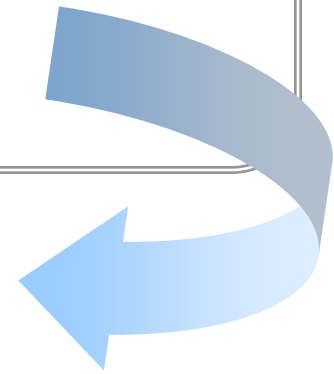
## e-Learning

- Right Contents
- Right People
- Right time
- Right Place

e-Learning is Just in Time Learning  
with those components

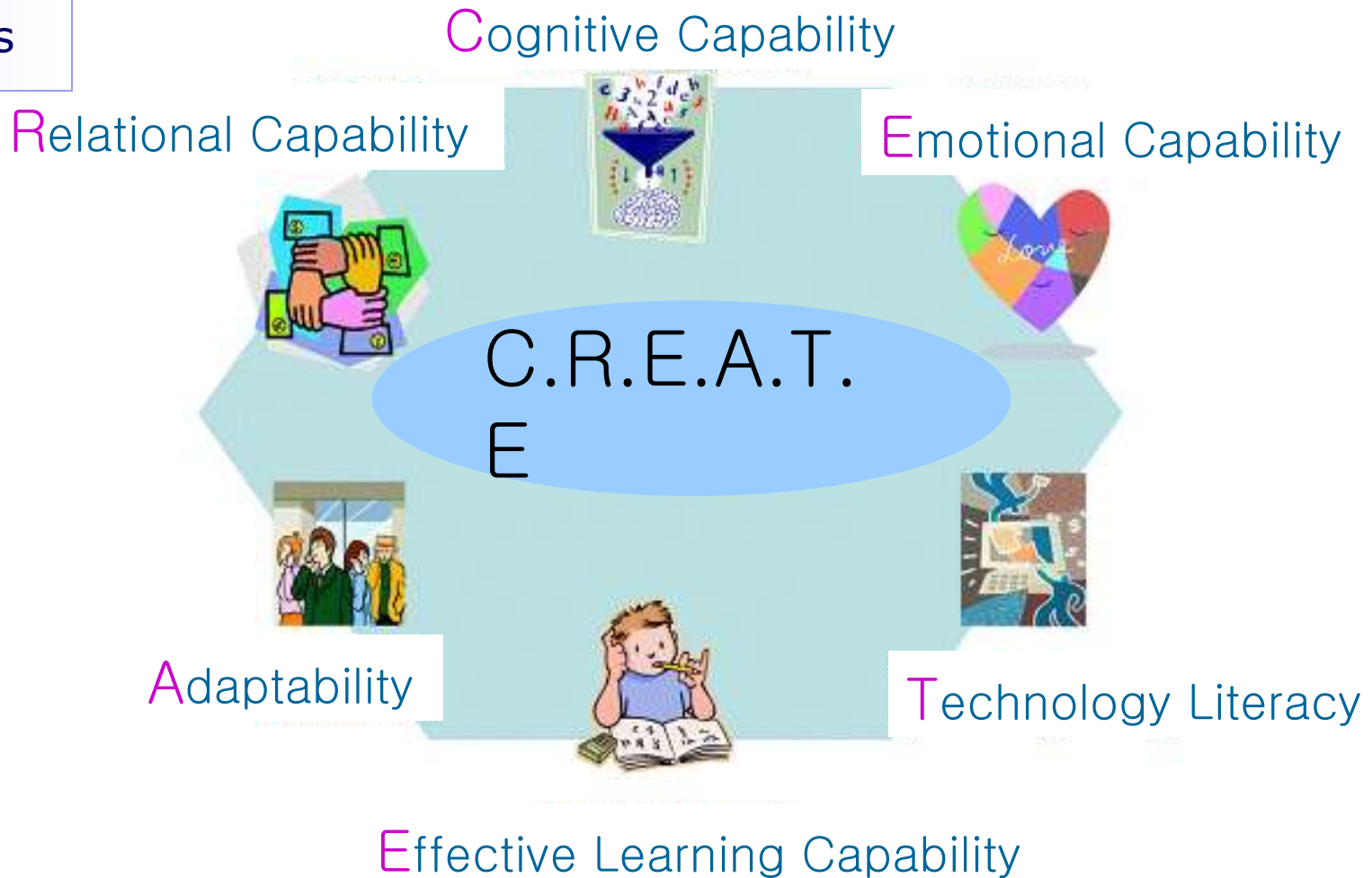


Study ? Learning ? Edutainment?

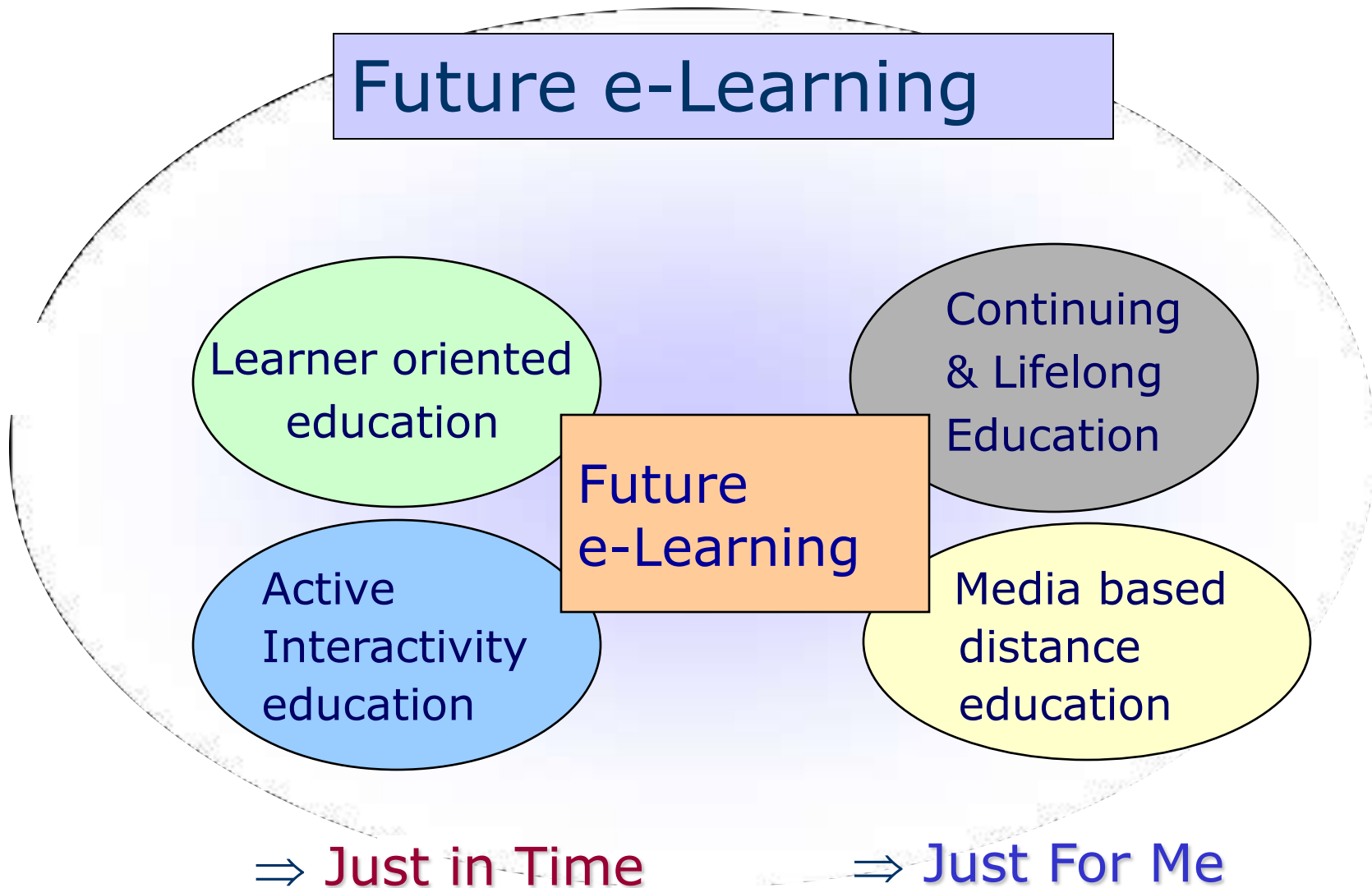




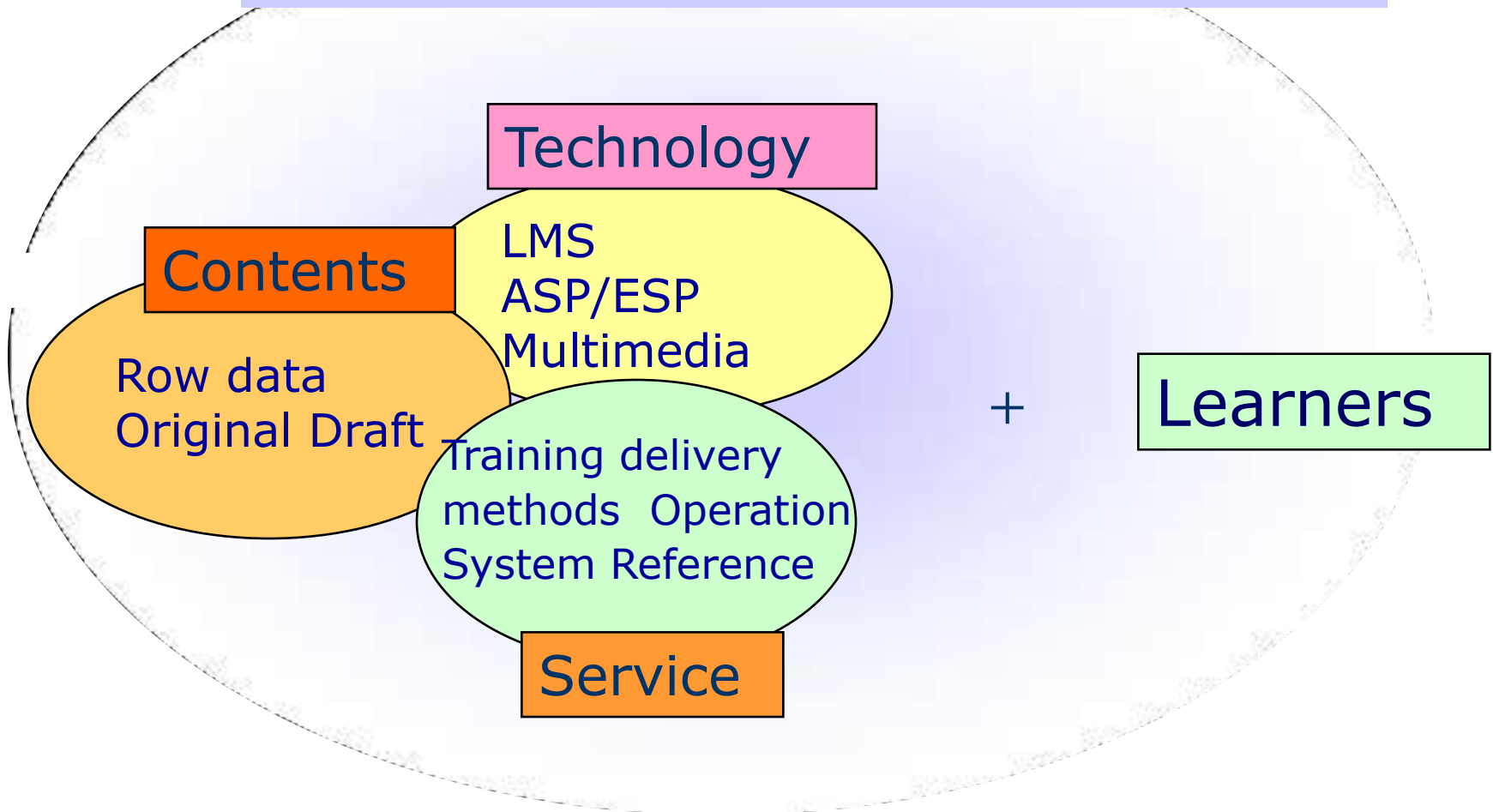
e-Learning:  
Learner's  
Capabilities



Source: Kwon et al. (2006). u-Learning Roadmap.KERI

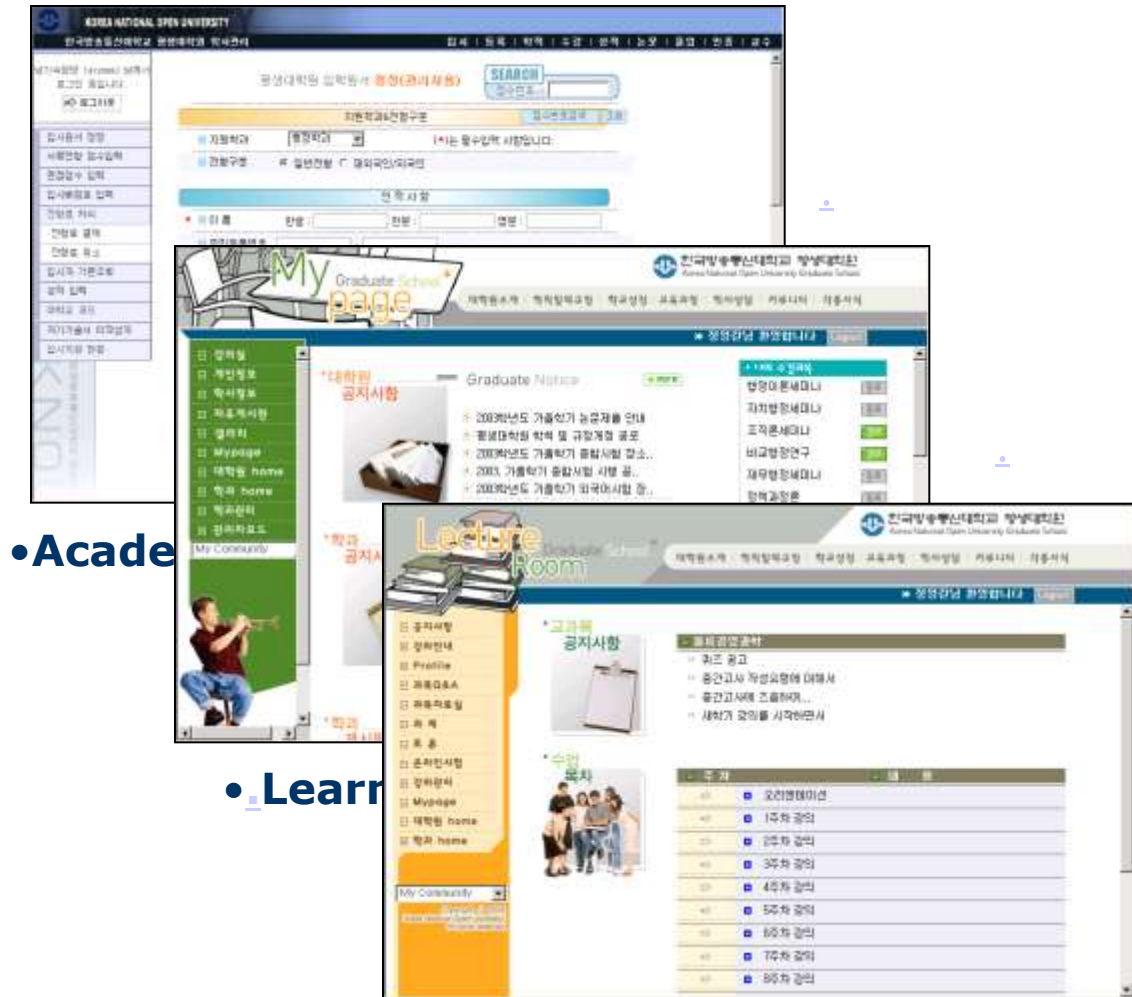


# Components of e-Learning



# Main Business

## 1. e-Learning System Dev.



•Acade

•Learn

•Learning Platform



# Design Template



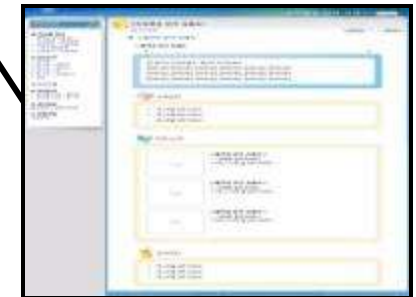
Chapter Guide#



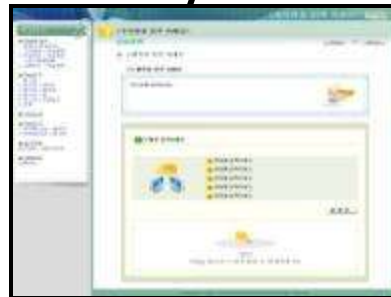
Assignment



MainContents



Reference



Exercise



Summary

# Template Demo.

## Item Window display

## Title of Subject

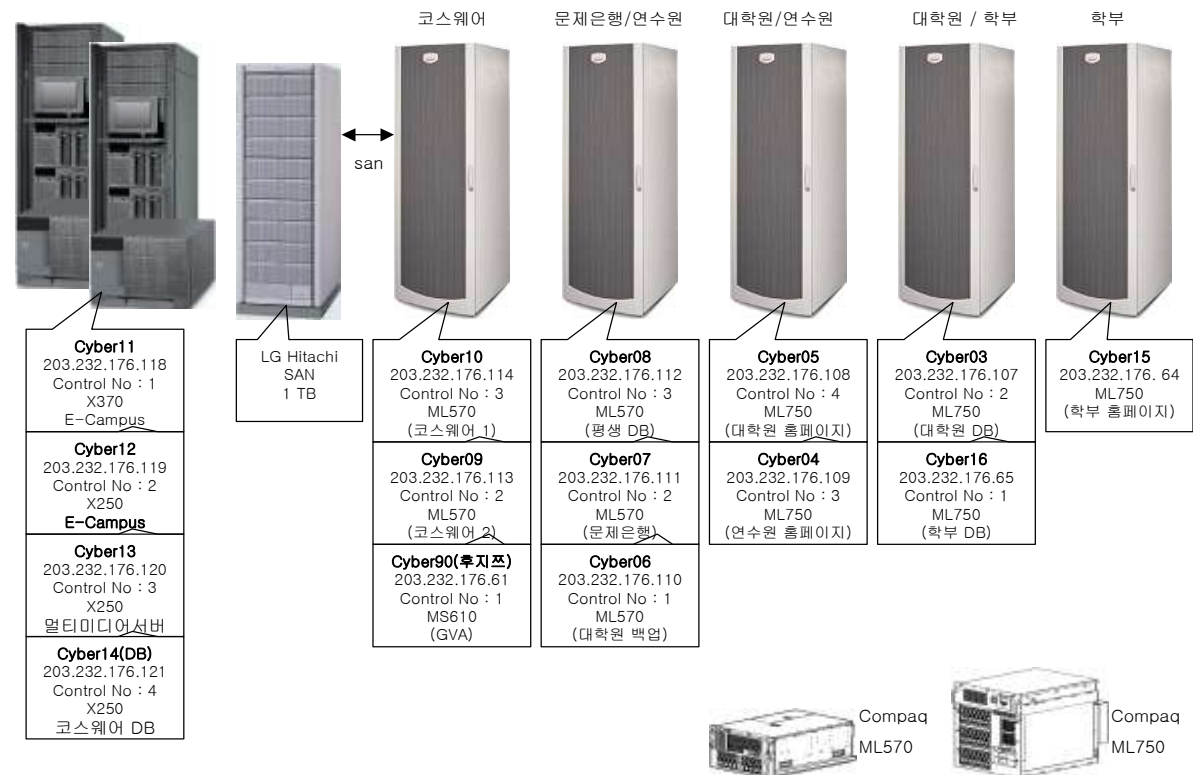
## Chapter Outline

## Objectives

# LMS/LCMS

◆ KNOU operates more than 20 servers except  
LOD system located in Internet Data Center.

- Physical Organization of e-Learning at KNOU



## LMS/LCMS

- ◆ **KNOU has many LMS/CMS management systems for various kinds of coursewares in the Graduate School, undergraduate, and Center for Continuing Education.**
  - **Logical components of e-Learning System at KNOU**

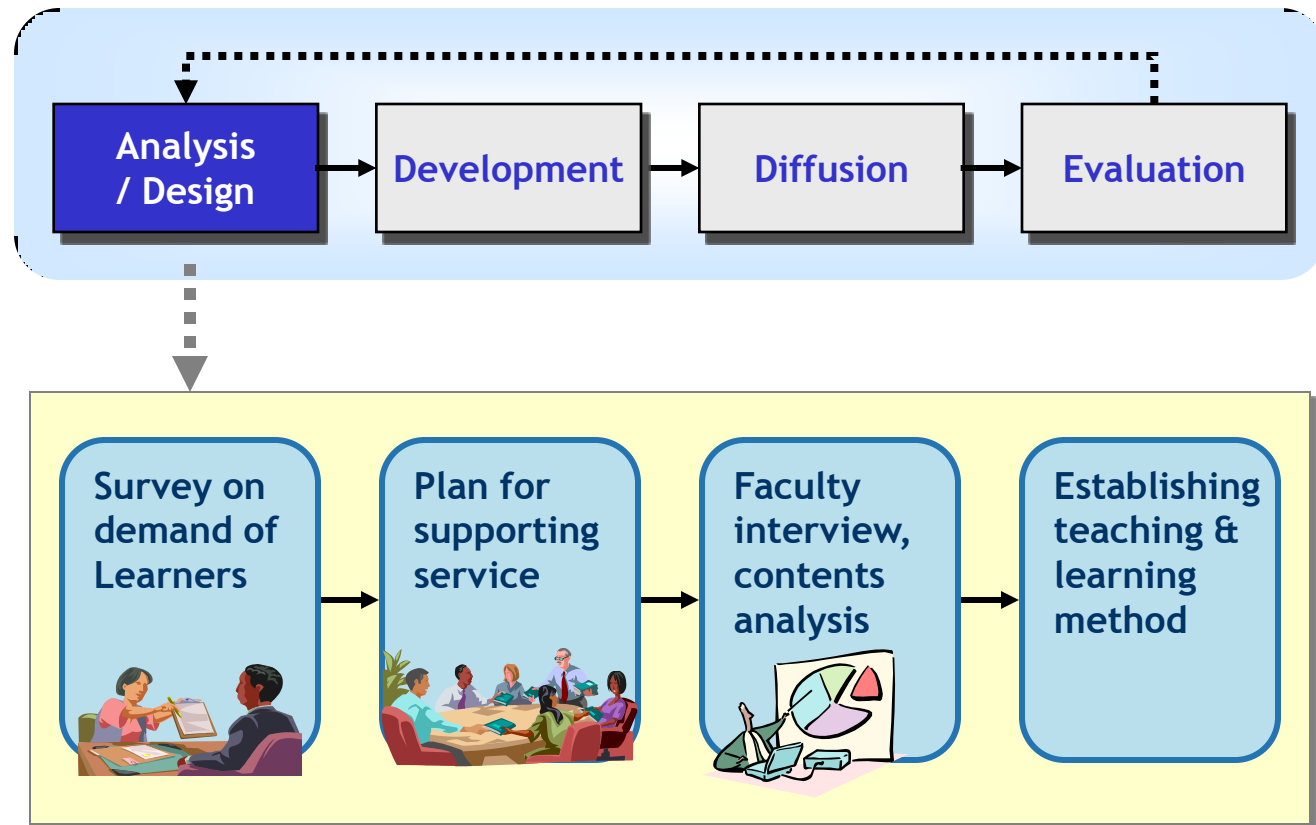
Divisions	Main Systems
Graduate School	School Affairs Management System
	Learning Management System (LMS)
	Contents Management System (CMS)
	Community System
	Evaluation System
Undergraduate	Learning Management System (LMS)
	Contents Management System (CMS)
	Evaluation System
Center for Continuing Education	School Affairs Management System
Courseware	Contents Management System (CMS)
KVC	School Affairs Management System
General	Media Streaming System
	Mailing System





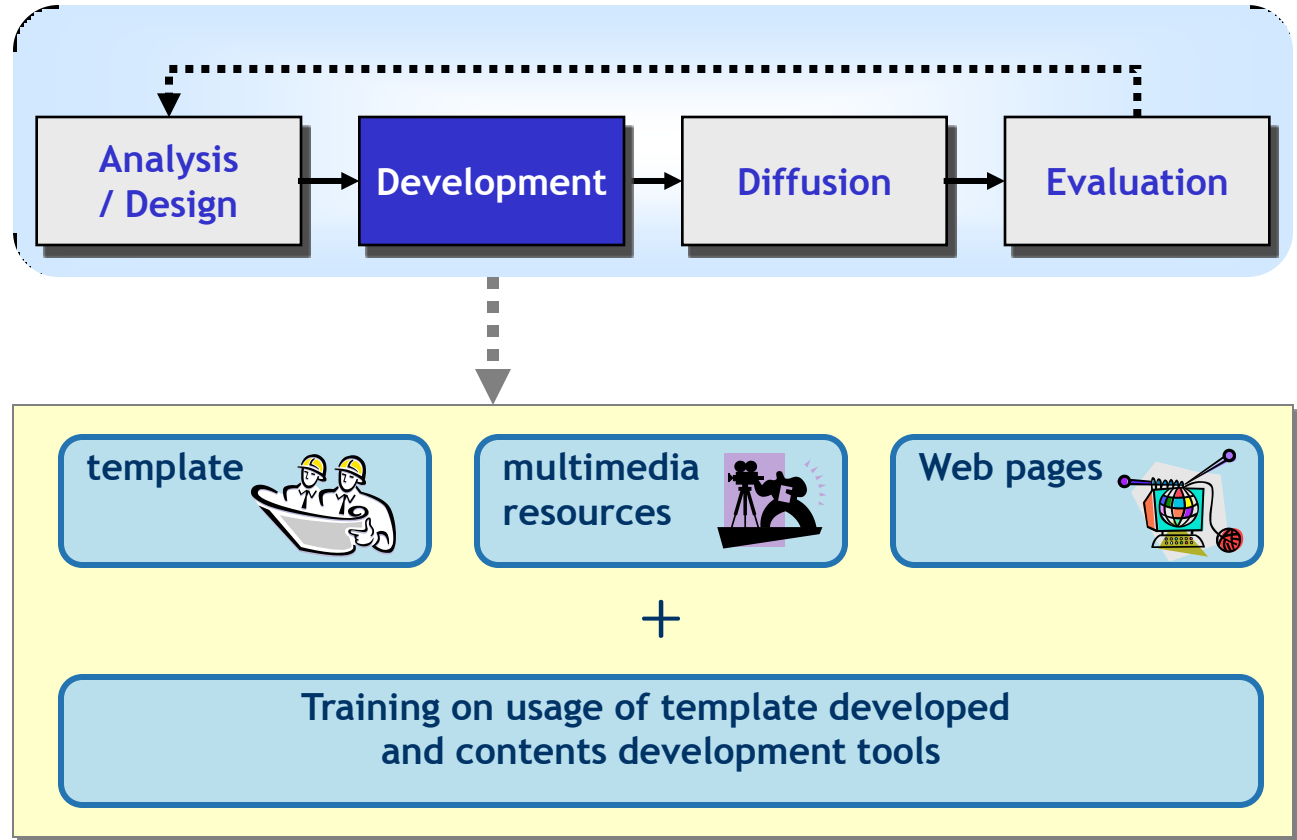
## e-Learning Consulting & Service

## Consulting Process



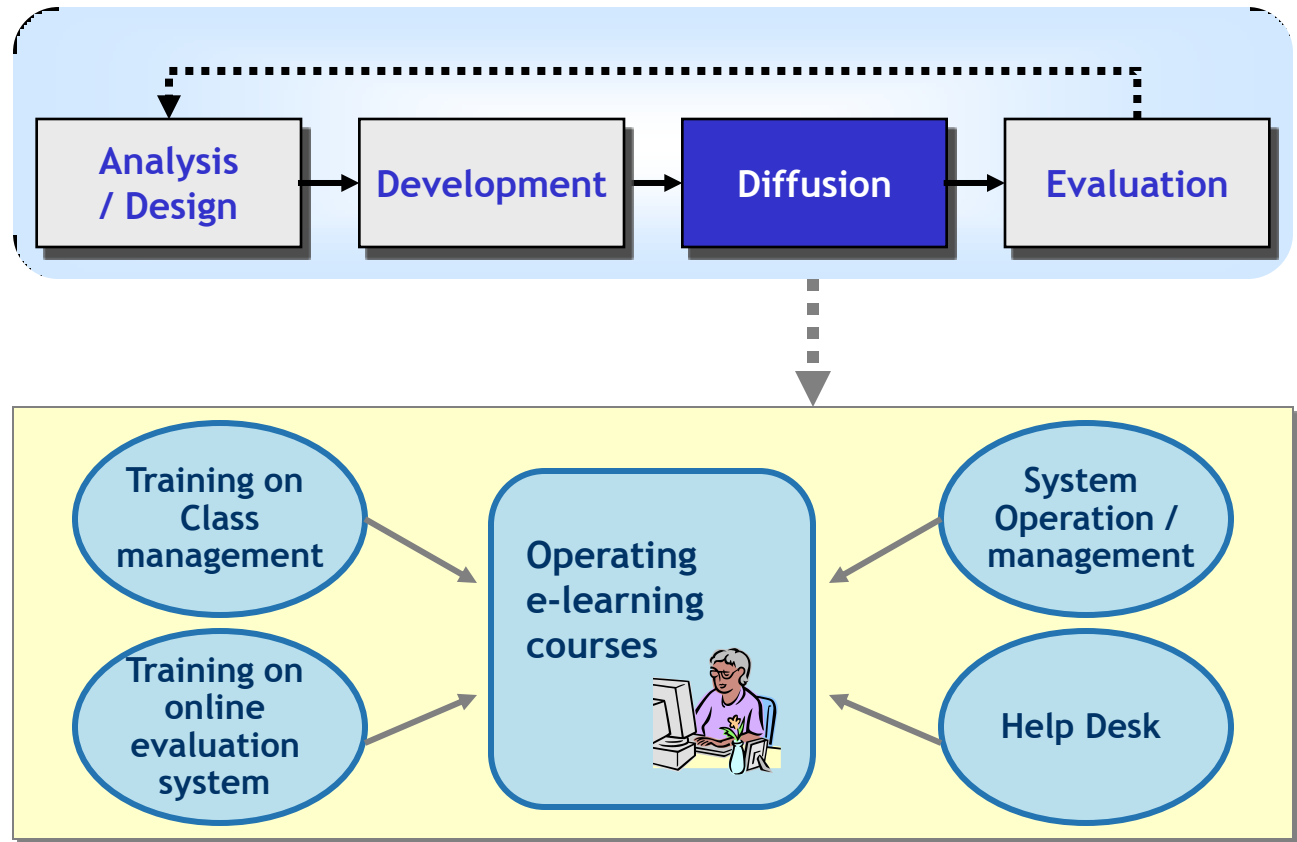
## e-Learning Consulting & Service

### Consulting Process



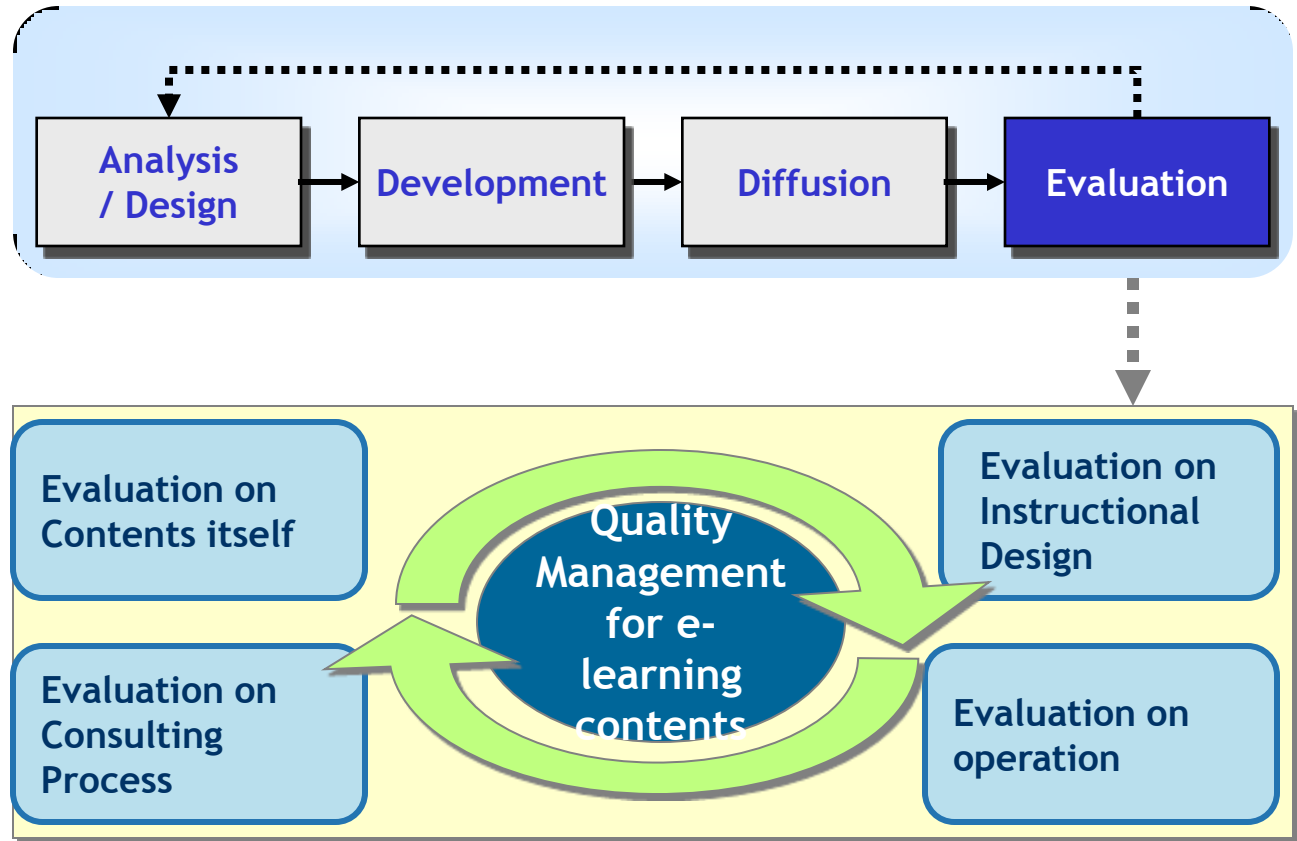
## e-Learning Consulting & Service

### Consulting Process



## e-Learning Consulting & Service

### Consulting Process





## Faculty Development

### Faculty Workshop



### e-learning Management guide



### Contents Dev. Template & Guidebook



### On-line Newsletter



# KNOU e-Campus

The screenshot displays the KNOU e-Campus website. At the top, the header includes the KNOU e-Campus logo, navigation links (Home, Sitemap, Contact us, English), and a main banner with the text "Knowledge Networking & Learning Opportunity for Upgrading". Below the banner, there are several sections: a "Best e-Learning" section featuring a video of a man, a "Help Desk" section for students and faculty, and a "Notice" section with a list of system upgrade notices. A "News" section on the right lists recent news items. The bottom of the page features an "e-Campus Life" section with icons for students, faculty, tutors, and staff, and a "Copyright" notice at the very bottom.

KNOU e-Campus

Home | Sitemap | Contact us | English

Knowledge Networking & Learning Opportunity for Upgrading

e-Campus | 과정안내 | 교수지원 | 학습지원

이러닝강좌

- 학부과정
- e-Class
- 한국가상캠퍼스
- 정보통신사이버대학

대학원과정

- 평생교육과정

이러닝강좌

Help Desk

학생 (Learner) | 교수 (Faculty)

이러닝 강좌 가이드

학생 (학습) | 교수 (운영)

제2차 e-Learning Workshop

이러닝 강좌, 운영이 열려다

평생대학원

2004년 컨텐츠 개발

Notice

- 시스템 정기점검 안내 | 2004.6.16
- 시스템 정기점검 안내 | 2004.5.21
- 제2차 이러닝 워.. | 2004.5.7
- 시스템 정기점검 안내 | 2004.4.30

News

- EBS특별기획에 분교.. | 2004.7.13
- 17개 사이버대 '맞춤.. | 2004.7.5
- 해외 유명 대학들.. | 2004.7.5
- 석사 학위도 사이버대학.. | 2004.7.5

e-Campus Life

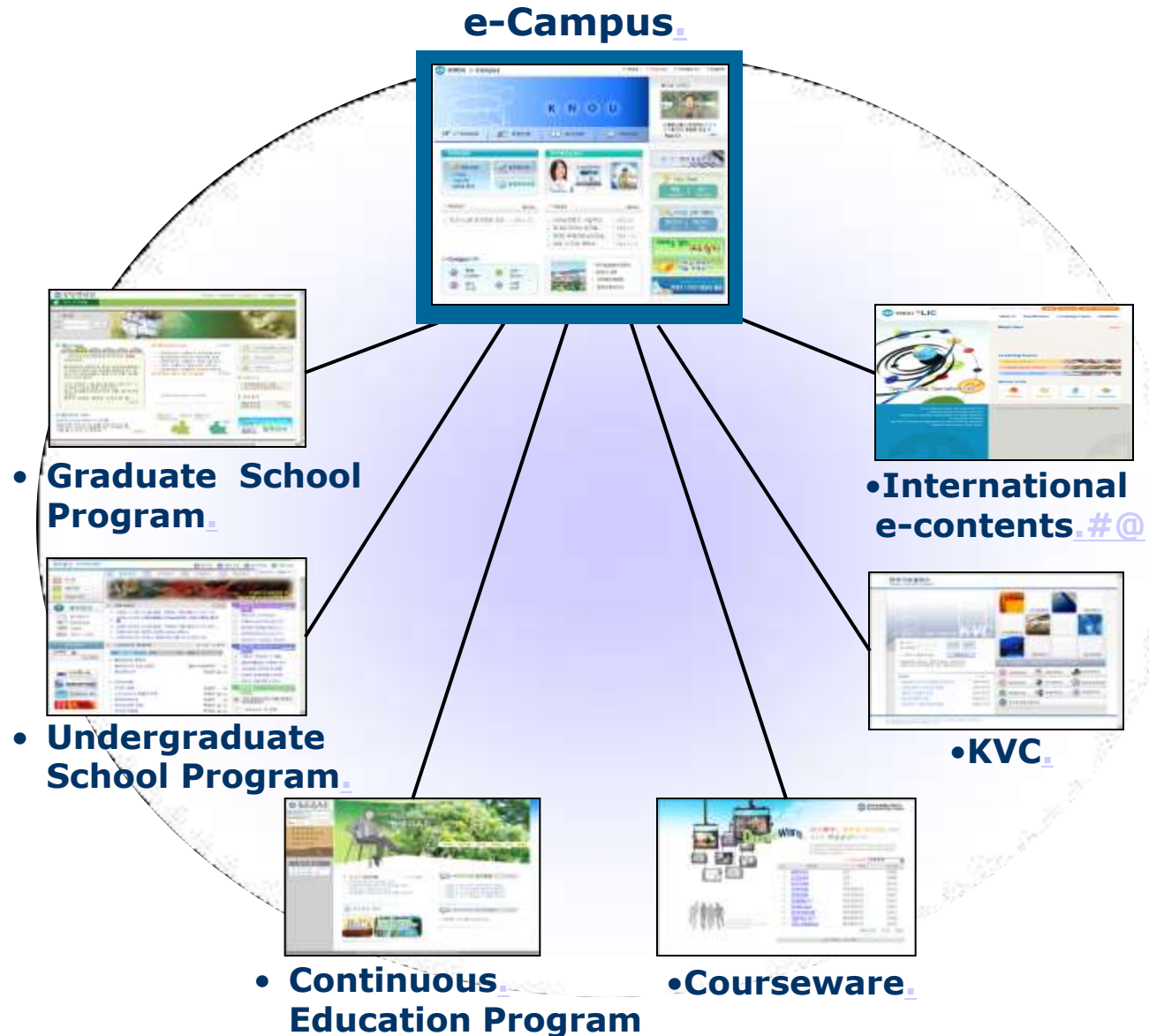
- 학생 LEARNER
- 교수 FACULTY
- 튜터 TUTOR
- 스텝 STAFF

한국방송통신대학교

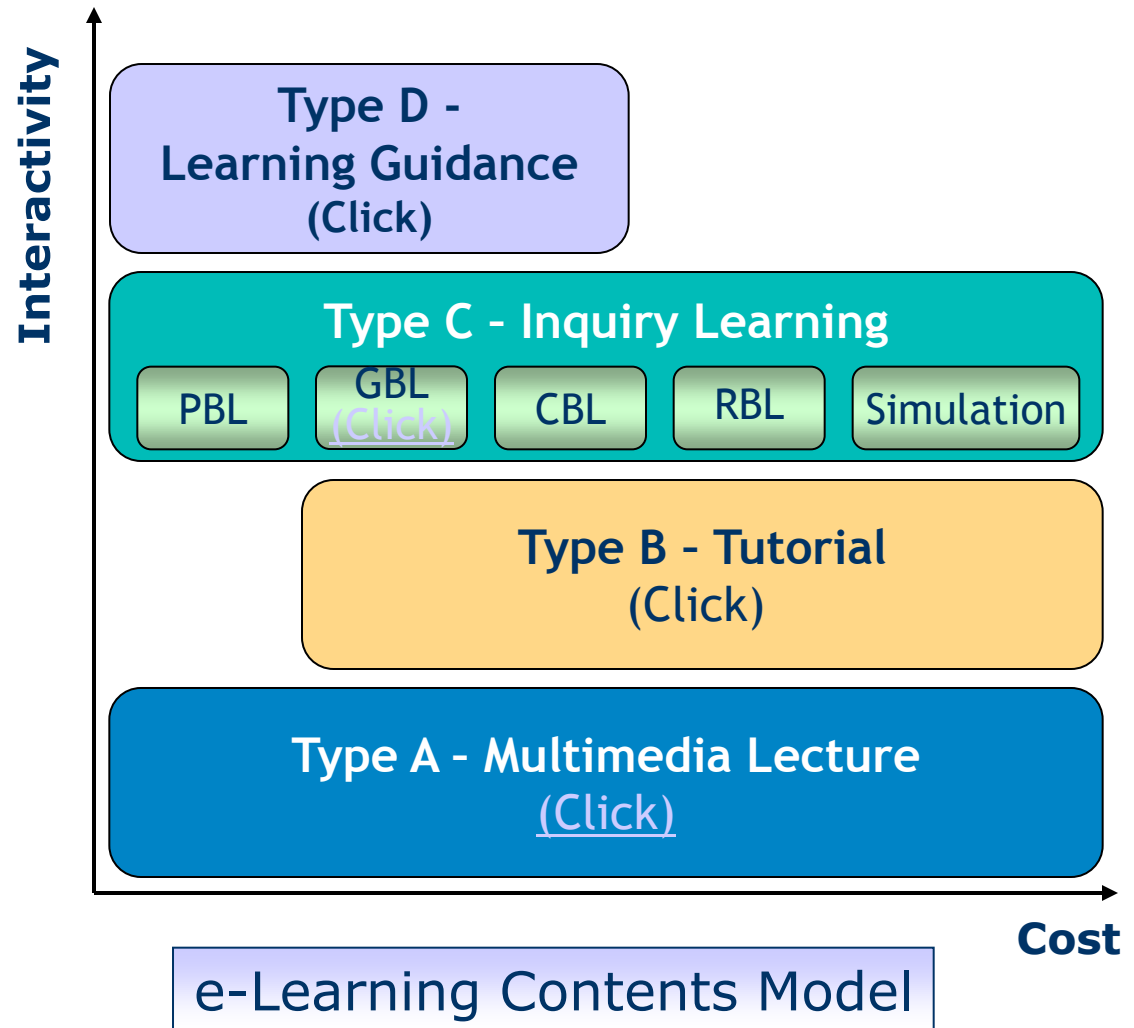
- 중앙도서관
- 교육매체개발원
- 평생교육연구소

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# e-Campus Operation



## e-Learning Contents Model



## International Contents

### (3) International Contents for Exchange Project Funded by Ministry of Education & Human Resources Dev.

International courses are on developing

- History of Korea
- Korean Culture & Art
- Introductory Statistics

Translations for

English, Chinese, Japanese

Target audiences

- Higher education institution
- Overseas Koreans used Korean as second Language
- Any foreigner needed



English

English

Chinese

English

Japanese



## Homepage for International Version

**KNOU eLIC**

HOME | SITE MAP | CONTACT US | **LOGOUT** | **Change My Info** | **CANCEL MEMBERSHIP**

About Us | News&Notice | e-Learning Course | Guidelines

**What's New** > MORE

**e-Learning Course**

- > History of Korea
- > Culture and art of Korea
- > Introduction of Statistics

**Quick Link**

- e-learning
- Help desk
- Guidelines
- Information

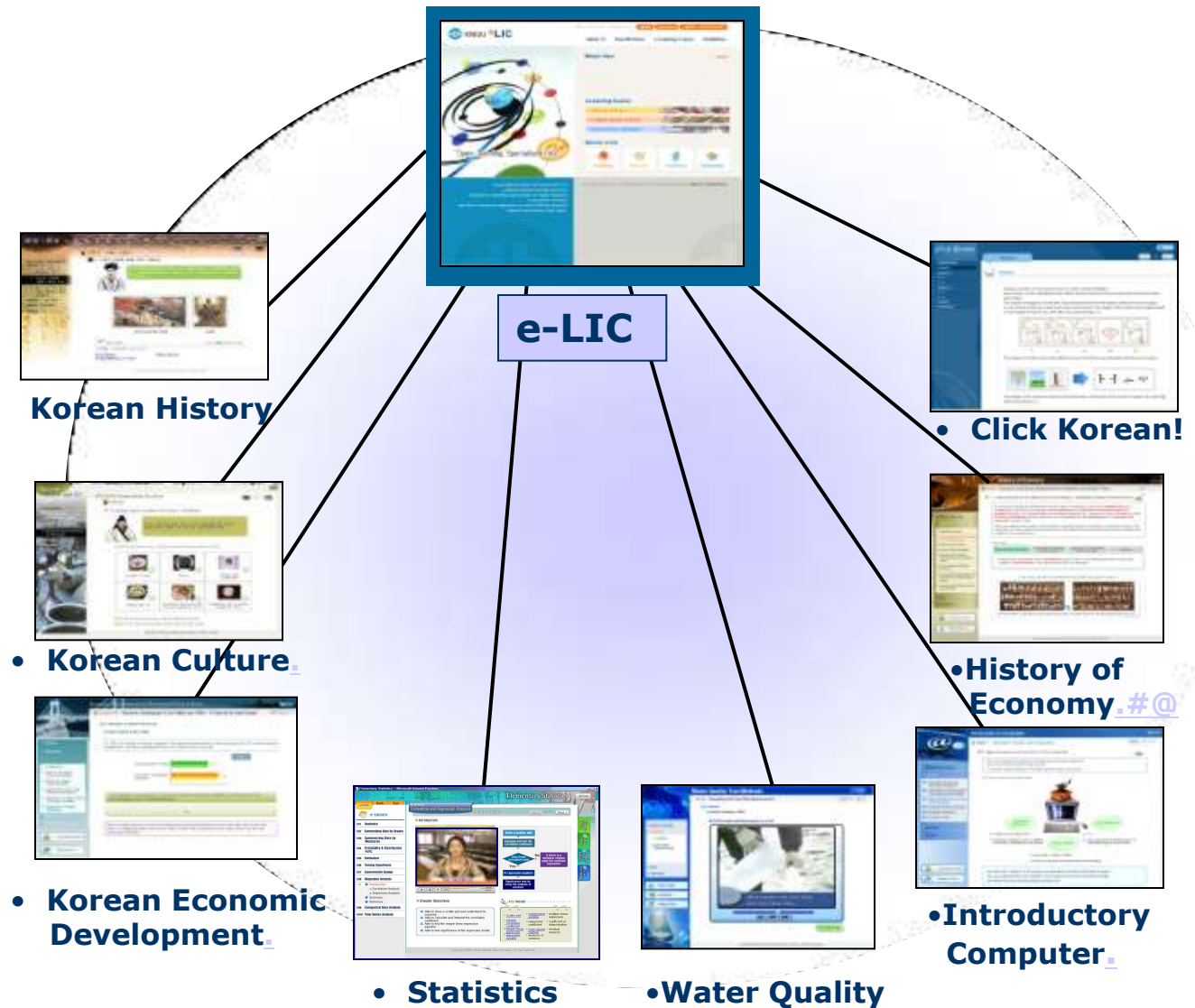
**"Open Learning, Specialized Edu"**

Korea National Open University(KNOU) is a national distance learning university dedicated to expanding opportunities for higher education to the people of Korea, and offers everyone an opportunity to receive lifelong education whenever and wherever they desire.

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**<http://203.232.176.123/>**  
**ID:test PW: testtest**

# KNOU e-Learning International Campus



# KNOU e-Learning International Campus

## 1 Korean History

• **Content** : This lecture deals with Korea and the Korean people by looking at the characteristics of each period while focusing on important historical events and issues.

• **15 Units**



## KNOU e-Learning International Campus

## 2 Korean Culture and Art

• **Content** : The lecture is about the characteristics of tradition life-style and Korean art and the relationship between traditional culture impacted on modern society and characteristics of modern Korean.

• **16 Units**

## KNOU e-Learning International Campus

3

## Economic Development and Economic Policy in Korea

- **Content** : This lecture mainly deals with economic development in modern Korea and various economic policies. Also it includes the role of government in economic development and future economic system.
- **20 Units**
- **Co-development with KDI**  
(Korea Development Institute)

The screenshot shows the KNOU e-Learning interface. The main title is 'Economic Development and Economic Policy in Korea'. Below it, the current lecture is 'Lecture 01 Economic Development in the 1960s and 1970s : A Take-off for High Growth'. The current unit is '6. Utilization of Human Resources'. The sub-unit is '1) Labor Market in the 1960s'. The content area displays a text box stating: 'In 1963, the number of workers engaged in the agriculture-forestry-fishery sector accounted for 63% of total national employment. The urban unemployment rate was as high as 35% in that year.' Below this is a bar chart showing 'Total population increase' at 2.1x and 'Increase in working-age population' at 3.1x for the year 1963. A text box below the chart states: 'The total labor force increased at a rate of 3.4% during the same period, reflecting a continuous rise in the labor participation rate of working-age females.' At the bottom, a text box notes: 'What was really important was that the average educational attainment level of the Korean labor force in the early 1960s was significantly higher than that for other countries with a similar level of per capita income, and also rose continuously thereafter.' The left sidebar contains a navigation menu with 'Outline', 'Focusing', and 'New View' sections. The 'New View' section lists: 1. Introduction, 2. Shift to an Export-oriented Strategy, 3. Policy for Heavy Industrialization, 4. Agricultural Policy and 'Saemaul Movement', 5. Expansion of Major Social Overhead Facilities, and 6. Utilization of Human Resources. The bottom of the sidebar has buttons for 'Learning Guide' and 'References'.



## KNOU e-Learning International Campus

### 4 Click, Korean!

- **Content** : This lecture includes a basic knowledge of English to acquire basic Korean communication skills that can be used in everyday life in Korea.
- 20 Units
- Co-development with the Korean Language Education Center(KLEC) at the Language Education Institute of **Seoul National University**

The screenshot displays the 'Click Korean' website. The left sidebar contains a navigation menu with links: Introduction, Hangeul, Vowels 1, Vowels 2, Culture, and Dictionary. The main content area is titled 'Unit 1 Hangeul I'. It features a 'Hangeul' icon and a text box explaining that Hangeul consists of 19 consonants and 21 vowels, totaling 40 letters. It further states that 24 are basic letters and 16 are compounds. Below the text, there are five diagrams illustrating the articulation of consonants (ㄱ, ㄴ, ㄷ, ㄹ, ㄺ) based on the shapes of the voice organs (lip, tongue, throat, etc.). A blue arrow points from these diagrams to a box showing the shapes of vowels (ㅏ, ㅑ, ㅓ, ㅕ, ㅗ, ㅛ, ㅜ, ㅠ, ㅡ, ㅟ, ㅢ) based on the three basic components of the universe: heaven (天), earth (地), and human beings (人).

# KNOU e-Learning International Campus

■ **Content** : This lecture is an introduction to statistics including basic concept of statistics and basic analysis method for data.

■ **APECCUPH**

■ **UNSIAP**

■ **10 Units**

5

## Statistics

The screenshot displays the 'Elementary Statistics' e-Learning interface within a Microsoft Internet Explorer browser window. The interface is organized into several sections:

- Navigation Menu (Left):** Lists units from 01 to 10. Unit 01 is 'Statistics', and Unit 08 is 'Regression Analysis'. The current unit, Unit 08, is expanded to show 'Introduction', '1. Correlation Analysis', '2. Regression Analysis', 'Summary', and 'Reference'.
- Video Player (Center):** Displays a video of Prof. Tae Rim Lee, a woman in a patterned jacket, speaking in a lecture hall.
- Main Content Area (Right):**
  - Introduction:** Features a flowchart for 'Correlation and Regression Analysis'. The steps are: 'Draw a scatter plot' → 'Calculate and test the correlation coefficient' → 'Does linear correlation exist?'. If 'Yes', the next step is 'Fit regression equation' → 'Significance test by using the analysis of variance'. If 'No', the step is 'If there is a nonlinear relation, apply the nonlinear regression'.
  - Chapter Objectives:** A list of objectives including drawing a scatter plot, calculating and interpreting the correlation coefficient, finding the simple linear regression equation, and testing the significance of the regression model.
  - Key Words:** A list of key terms including 'Scatter plot', 'sample correlation coefficient', 'simple linear regression', 'dependent variable', 'independent variable', 'multiple linear regression', 'coefficient of determination', 'least square method', and 'analysis of variance'.

At the bottom of the browser window, a copyright notice reads: 'Copyright © 2004 Korea National Open University. All right reserved'.

## KNOU e-Learning International Campus

▪ **Content** : The lecture includes the overview and development of computers, processor, input/out units, auxiliary storage units, software and programs, files and databases, data communication, Internet and ubiquitous.

▪ **15 Units**

### 6

## Introduction to Computers

# KNOU e-Learning International Campus

## 7 History of Economy

■ **Content** : This course is about how today's modern capitalistic economy started, developed and was modified in relation to the periodical economic, social, political and cultural phenomenon since the inception of human existence until now.

■ **15 Units**

History of Economy

Week1 Economic and Social Developments in Paleolithic and Ancient Times

2. Factors/ Elements for the Collapse of the Primeval Society = Establishing Conditions of Ancient Economy

The economical significances of the primeval society were in the following 5 points: the settlement life from a wandering life to get the survival materials, the establishment of a patriarchal household system from matrilineal society, the transformation to harvesting economy from a gathering economy, the genesis of the first finer social division between agriculture and stockbreeding and the development of "possession and ownership" concept of land.

Within the collective clan societies, as the production capacities increased, characteristics of collectivism evolved. The characteristics of this evolution were the major factors that collapsed the primeval social orders and also established the conditions of the ancient society.

Click here.

Fine Division of Labour | Bartering/ Exchange of Commodities | Concept of "Possession and Ownership" | Slavery

Gender based, age based, field of specialization based. Further, as the official administrative matters grew significant, professionalism in the official administration was developed.

[ The ancient Sumerian social organization chart depicting the division of labour ]

The left depicts the abundant economic base social structure. The right depicts the influential detailed military structures.

Learning Guide | Timechart of Economic History

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## KNOU e-Learning International Campus

### 8 Water Quality Test Methods

▪ **Content** : This lecture includes basic knowledge necessary for water pollution management by analyzing water quality parameters included in environmental regulations and water /wastewater treatment operations.

▪ **15 Units**





## UNSIAP e-Library



UNSIAP





# Plan for e-ASEM Network Establishment



# ASEM e-Learning Network

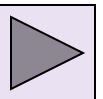
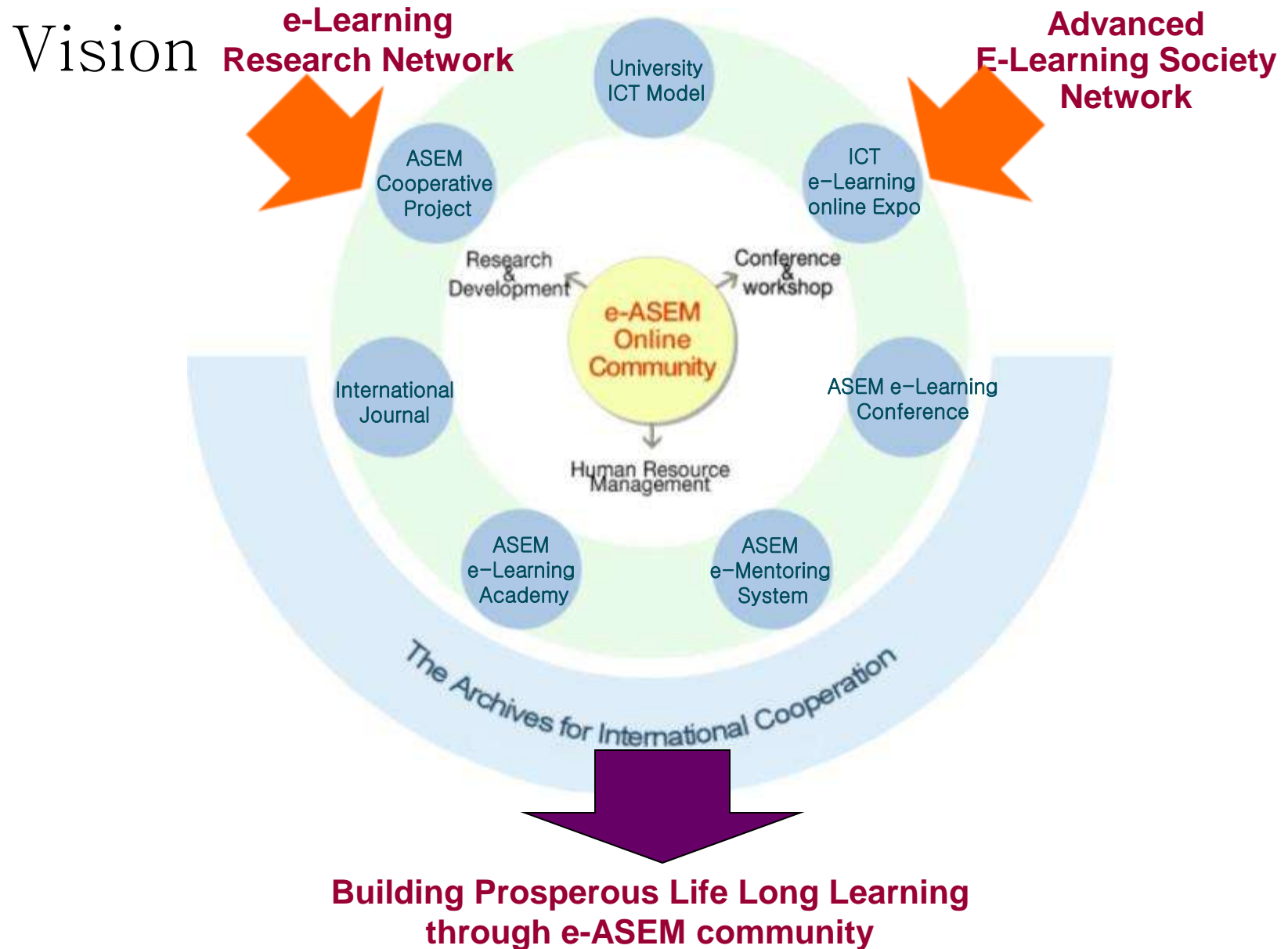
## ASEM e-Learning Network Hub site



The screenshot displays the ASEM e-Learning Network Hub website. The header features the ASEM logo and navigation links: [Online Journal](#), [e-Learning Expo](#), [e-Contents](#), [e-Learning Conference](#), [Collaborative Research](#), [e-Learning Academy](#), and [e-Mentoring](#). The main content area includes a large graphic of a world map with a large 'e' in the center, representing the Asia-Europe e-Learning Network. Below this graphic, the text reads: "Asia-Europe e-Learning Network" and "e-ASEM is an e-Learning network under ASEM Life Long Learning (LLL) for promoting cooperation among Asian and European countries in regard to ICT skill, e-Learning and culture of e-Learning in lifelong learning." A link for "About e-ASEM" is provided. To the right, there is a section for "e-ASEM News" with a table of recent news items, and a "Project Highlights" section featuring four project cards: "Online Journal", "e-Learning Expo", "e-Contents", and "e-Learning Conference". Each card includes a brief description and a link to the project. The footer contains logos for "ASEM Education Hub" and "Korea National Open University".

e-ASEM News	
ICT Online Contest_How to apply?	2006-09-08
ICT Online Contest_How to apply?	2006-09-08
ICT Online Contest_How to apply?	2006-09-08

Project Highlights	
<b>Online Journal</b> Clarifying Functional Concordualism: A Reply to Commentaries	<b>e-Learning Expo</b> Clarifying Functional Concordualism: A Reply to Commentaries
<b>e-Contents</b> Clarifying Functional Concordualism: A Reply to Commentaries	<b>e-Learning Conference</b> Clarifying Functional Concordualism: A Reply to Commentaries



## Theme

### **1 Sharing ICT skill- and e-learning-related information and knowledge**

- Publishing an ASEM online journal
- ASEM e-learning Expo
- ASEM e-contents
- ASEM e-learning Conferences

### **2 ICT skill- and e-learning-related research**

- Collaborative research on ICT skill and e-learning

### **3 Development of ICT skills- and e-learning-related human resources**

- ASEM e-learning Academy
- ASEM e-Mentoring System

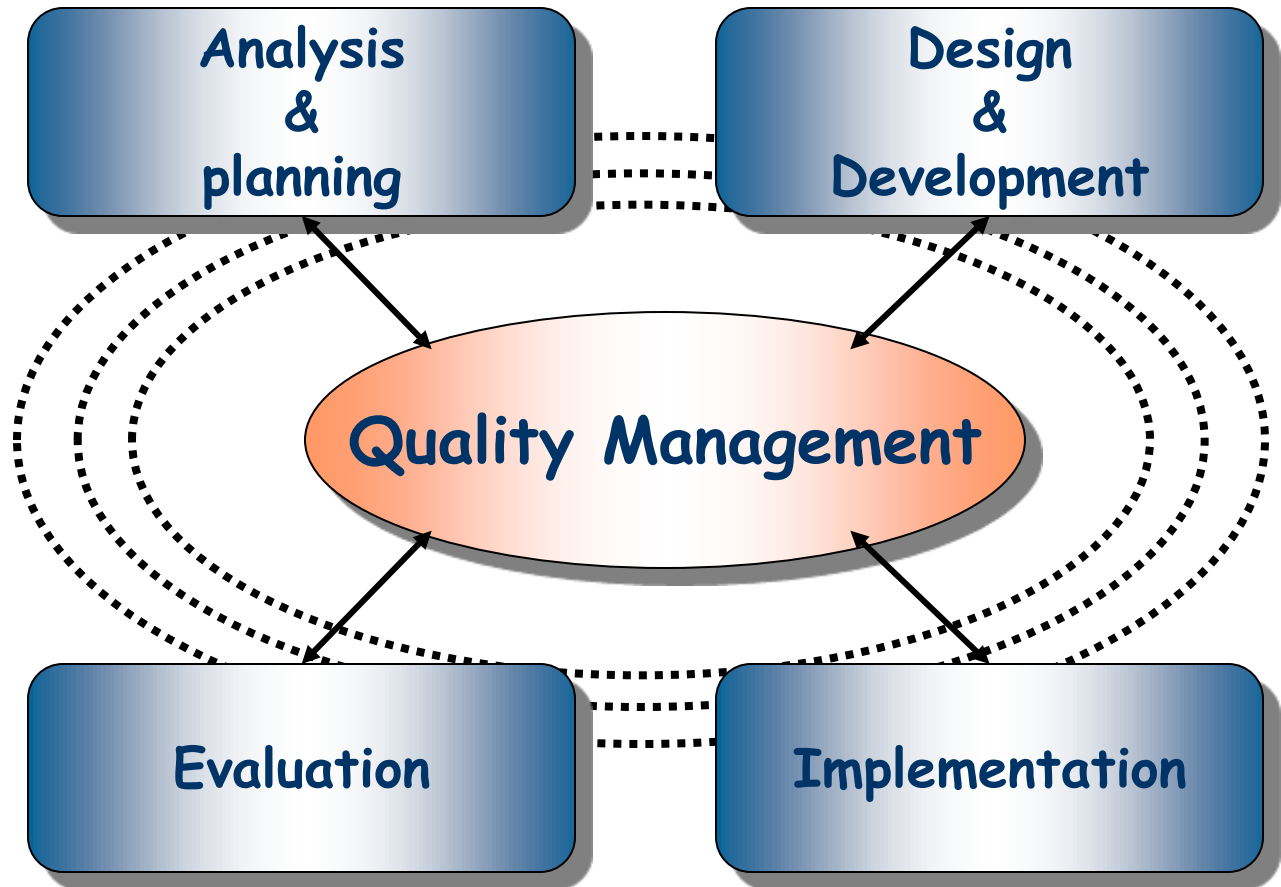




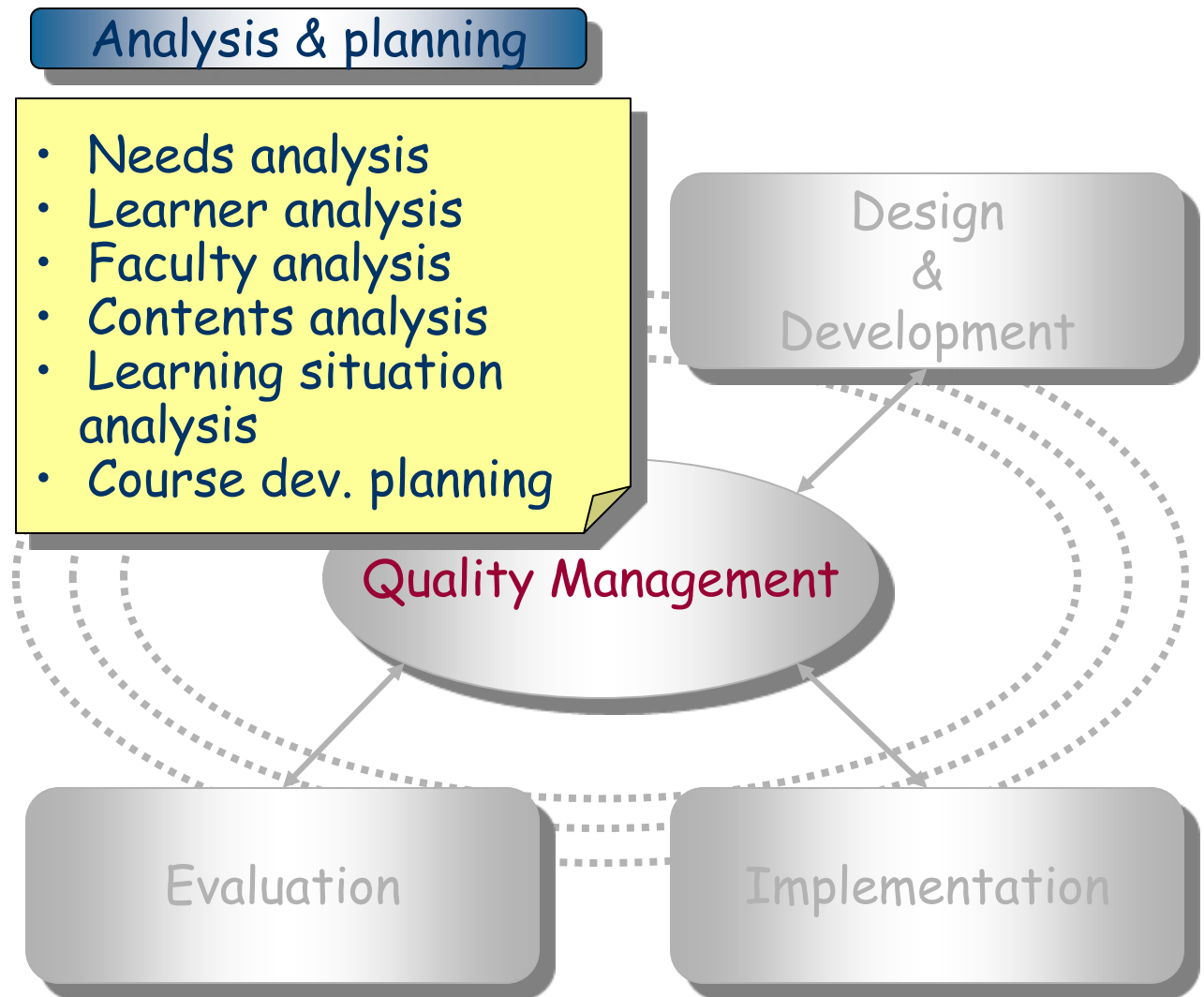
# Quality Assurance Model



## Process Based Model



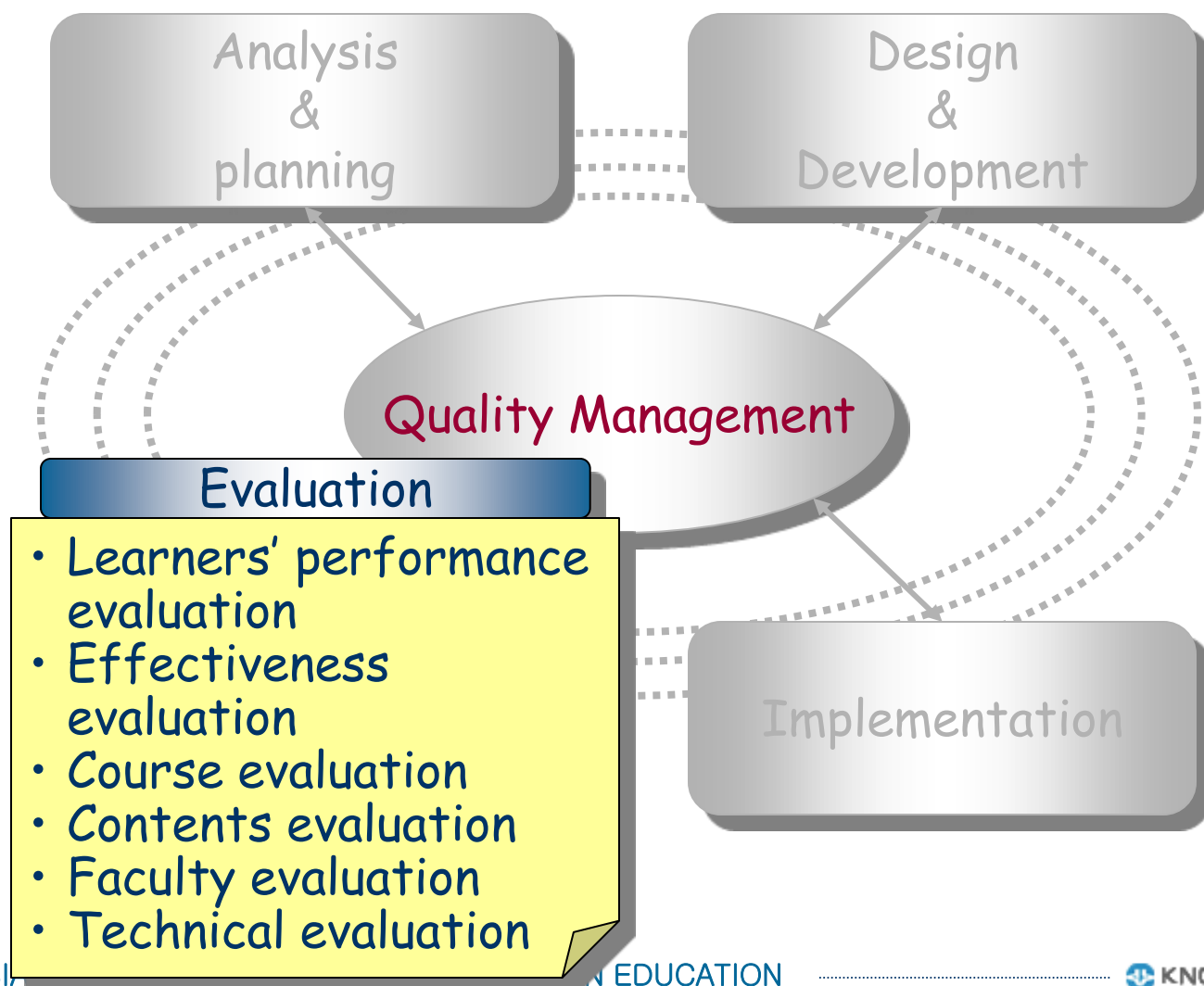
## Process Based Model



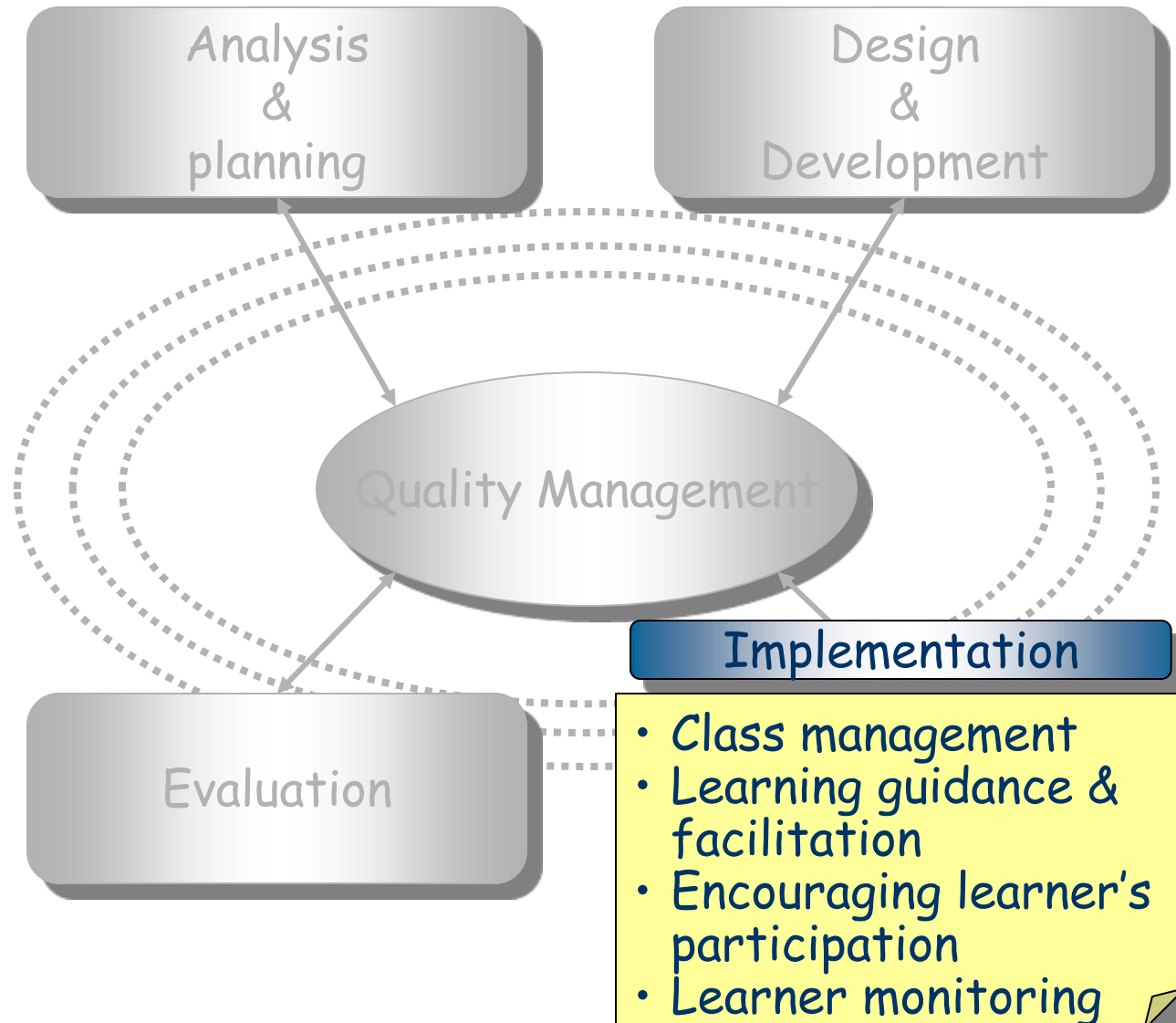
### Process Based Model



### Process Based Model



## Process Based Model





## Quality Evaluation criteria

Analysis & planning

Design & Development

Implementation

Evaluation

Quality Management

## Course Development planning

- Analysis and planning for course development
- Regarding to characteristics of e-learning
- Validation of course selection

## Quality Evaluation criteria

## Course development strategies

- Using multimedia for representation
- Consistency of user interface
- Verification of prototype



## Quality Evaluation criteria

## Course implementation strategies

- Learner support
- Technical support

Analysis & planning

Design & Development

Implementation

Evaluation

Quality Management



## Quality Evaluation criteria

## Course evaluation strategies



- Learner's performance
- Course evaluation
- Faculty evaluation
- System evaluation

## Quality Evaluation criteria

## Quality control strategies

- Quality management planning
- Quality evaluation
- Institutional support



## Advanced Learning

- New Information Comm. Technology
  - *m-Learning*
  - *u-Learning*
  - *t-Learning, etc.*





# m-Learning

## m-Learning

### ■ Definition of m-Learning

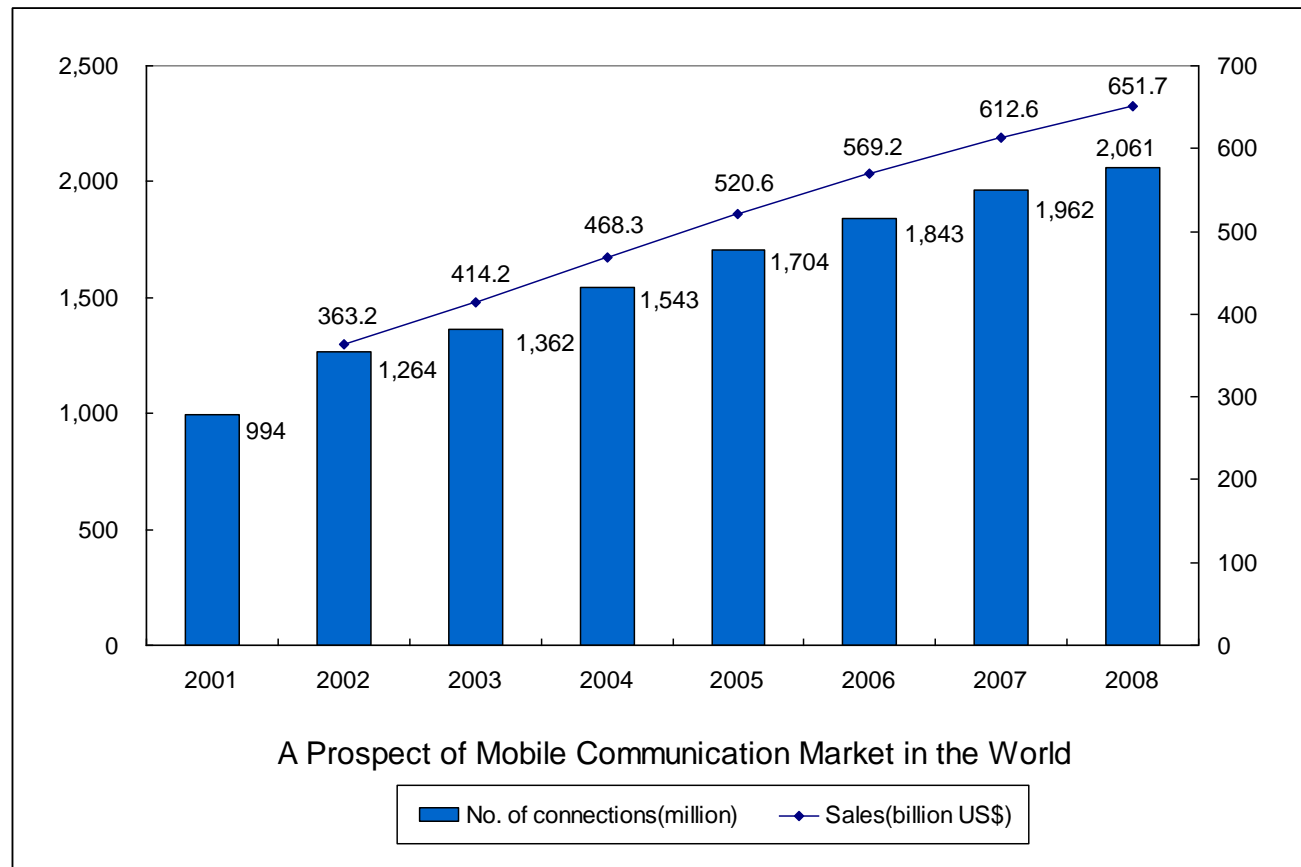
**m-learning is e-learning with the freedom to change **location** while learning [ISO/IEC JTC1/SC36/WG1]**

**m-learning is e-learning through **mobile computational devices** [Anna Trifonova]**

**m-learning is learning that takes place via such wireless devices as cell phones, personal digital assistants (PDAs), or laptop computers [Glossary of ASTD's Learning Circuits]**

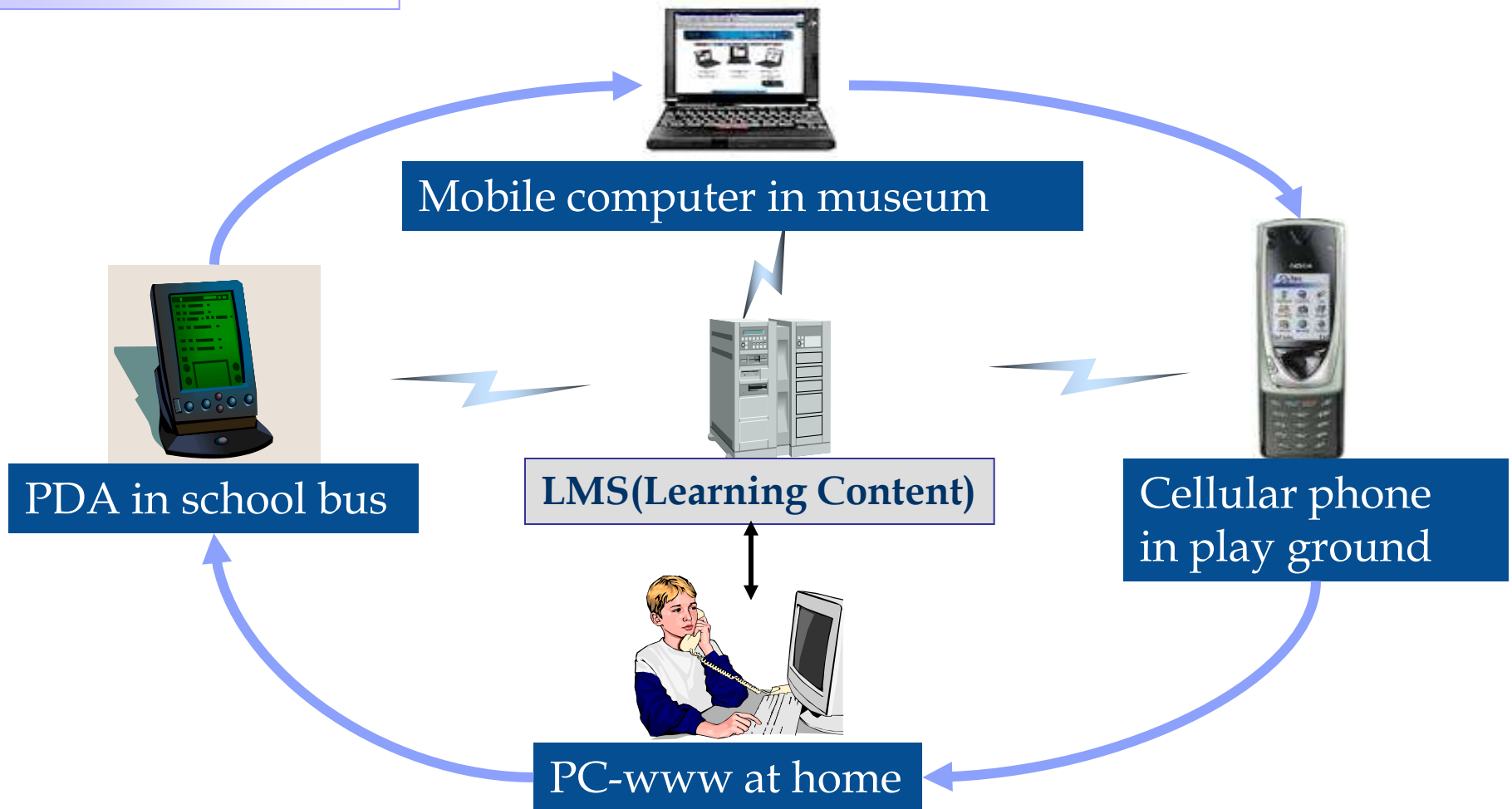
## ■ Mobile Communication Market in *the World*

### m-Learning



From Mobile@Ovum, 2004

# m-Learning Environment

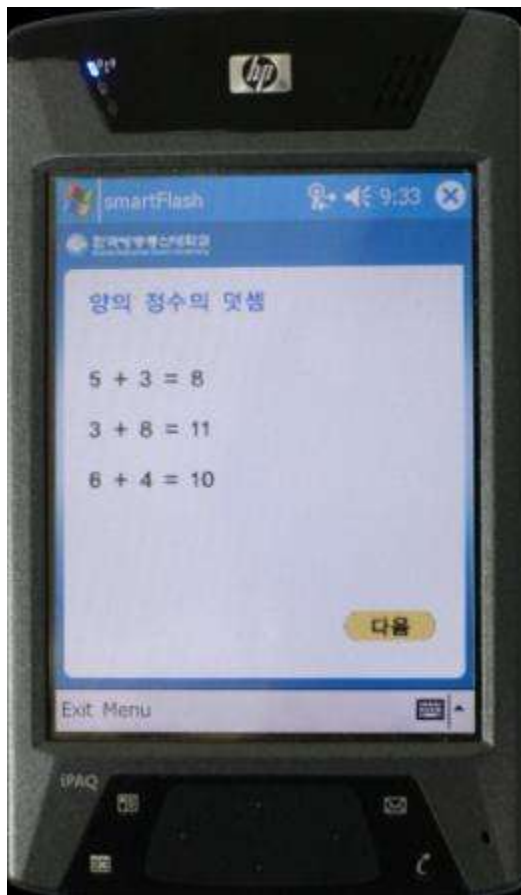


## Content Development

- File size
  - Suitable for PDA or Mobile
  - Flash program
  - Well-divided content units

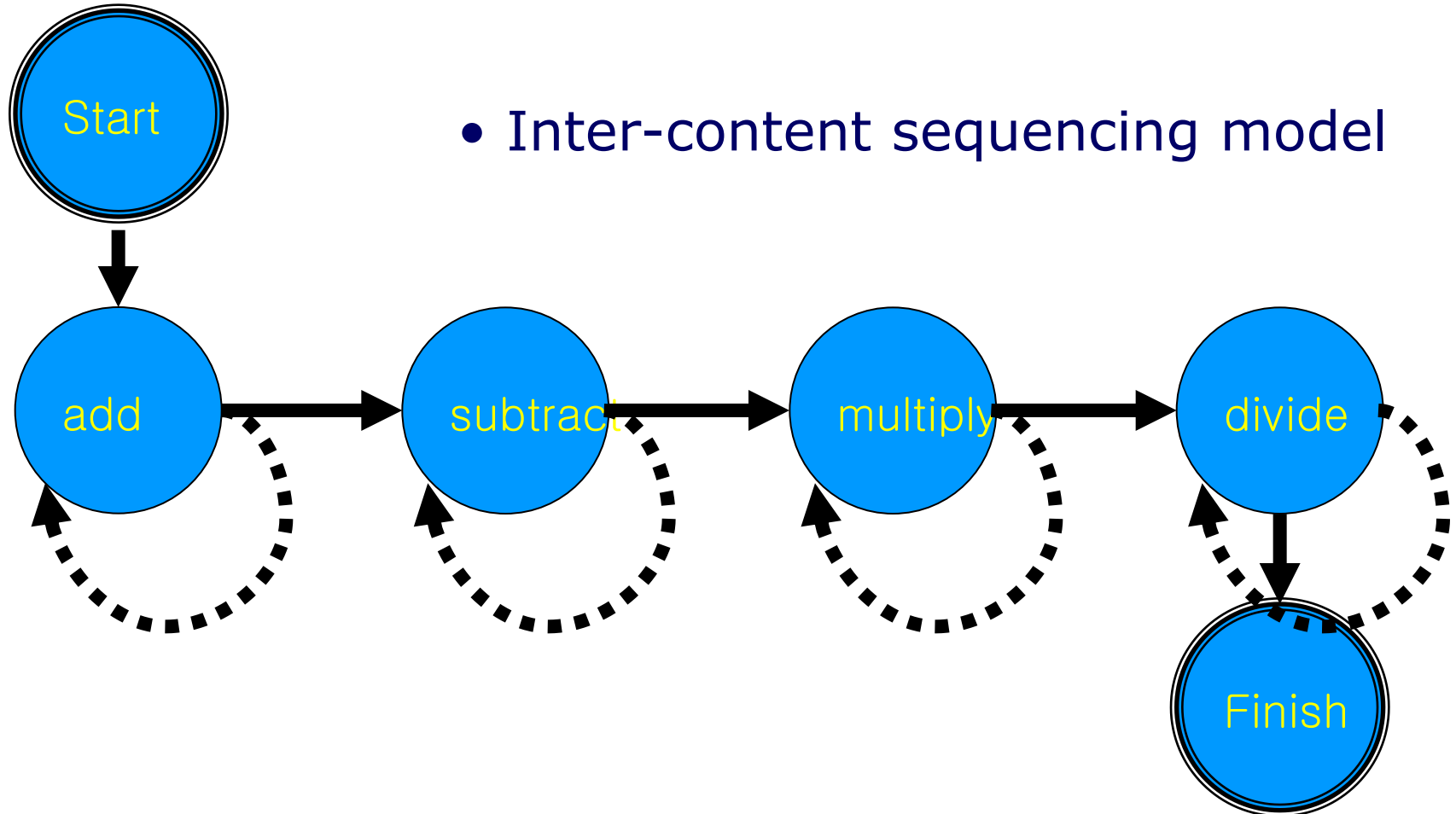


## Content Development



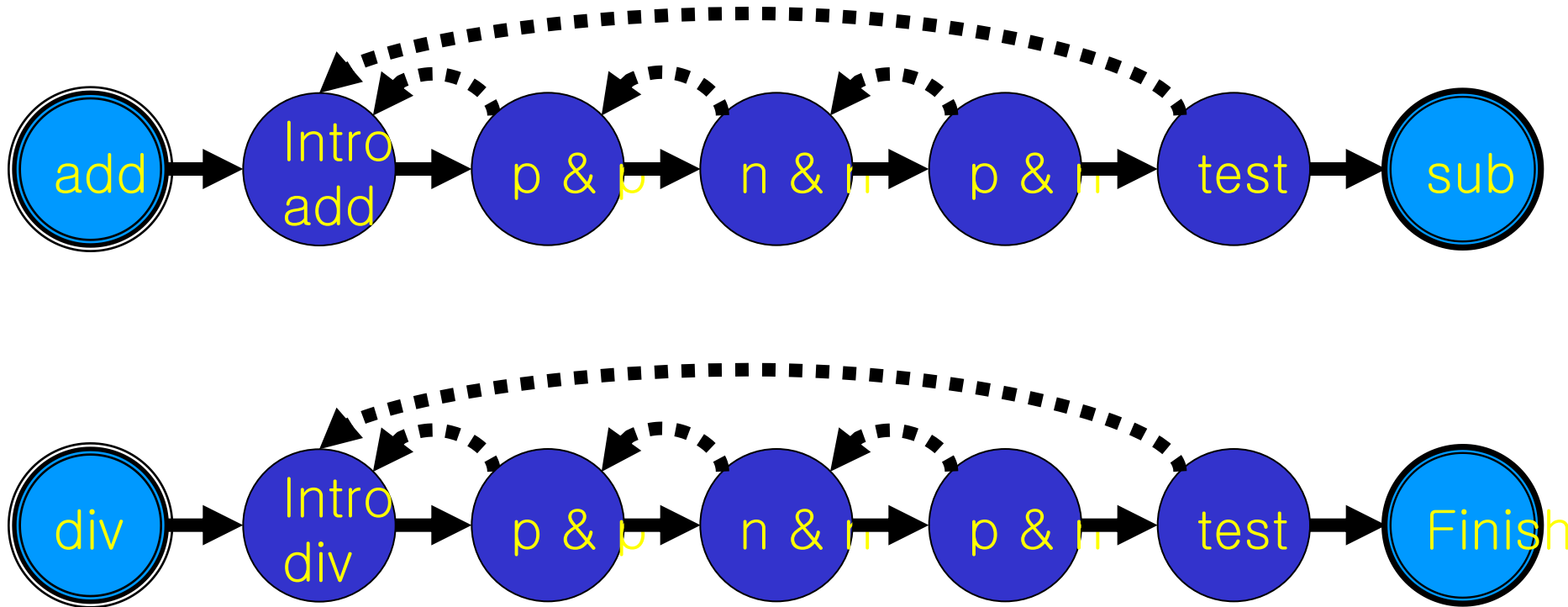
## LMS for m-Learning with PDA

- Inter-content sequencing model

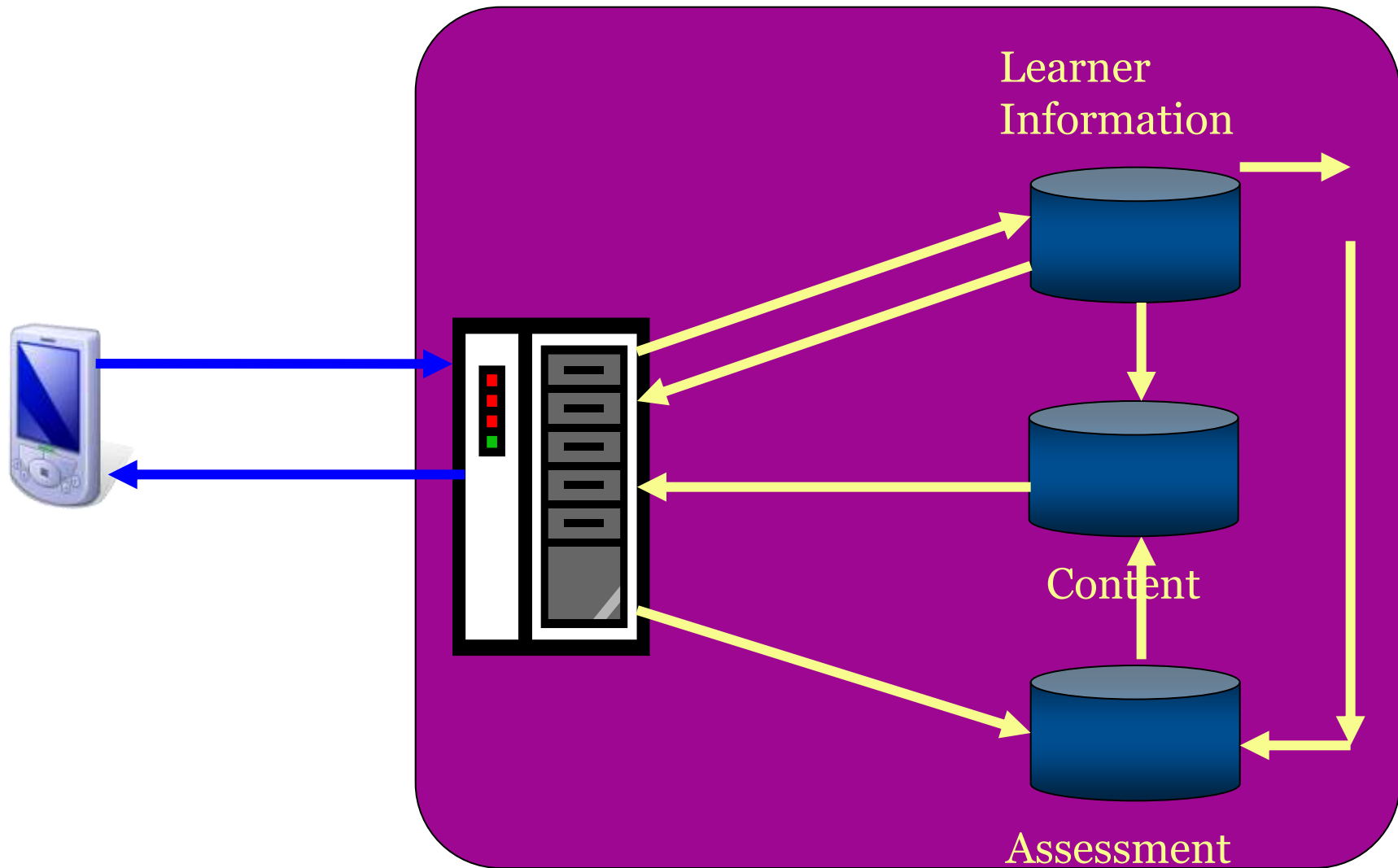


## LMS for m-Learning with PDA

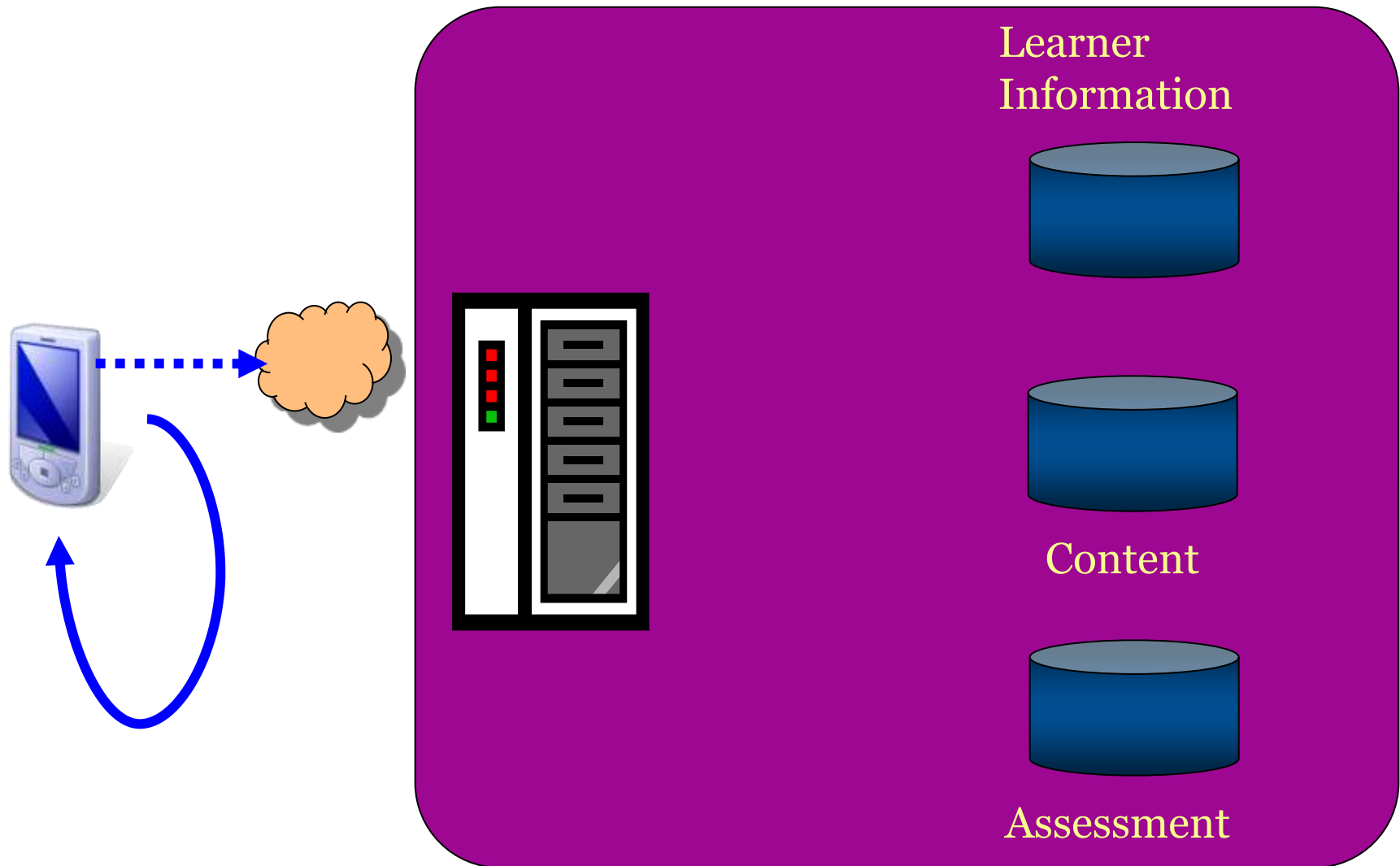
- Intra-content sequencing models



## LMS for m-Learning with PDA



## LMS for m-Learning with PDA





## Demo of m-Learning with PDA



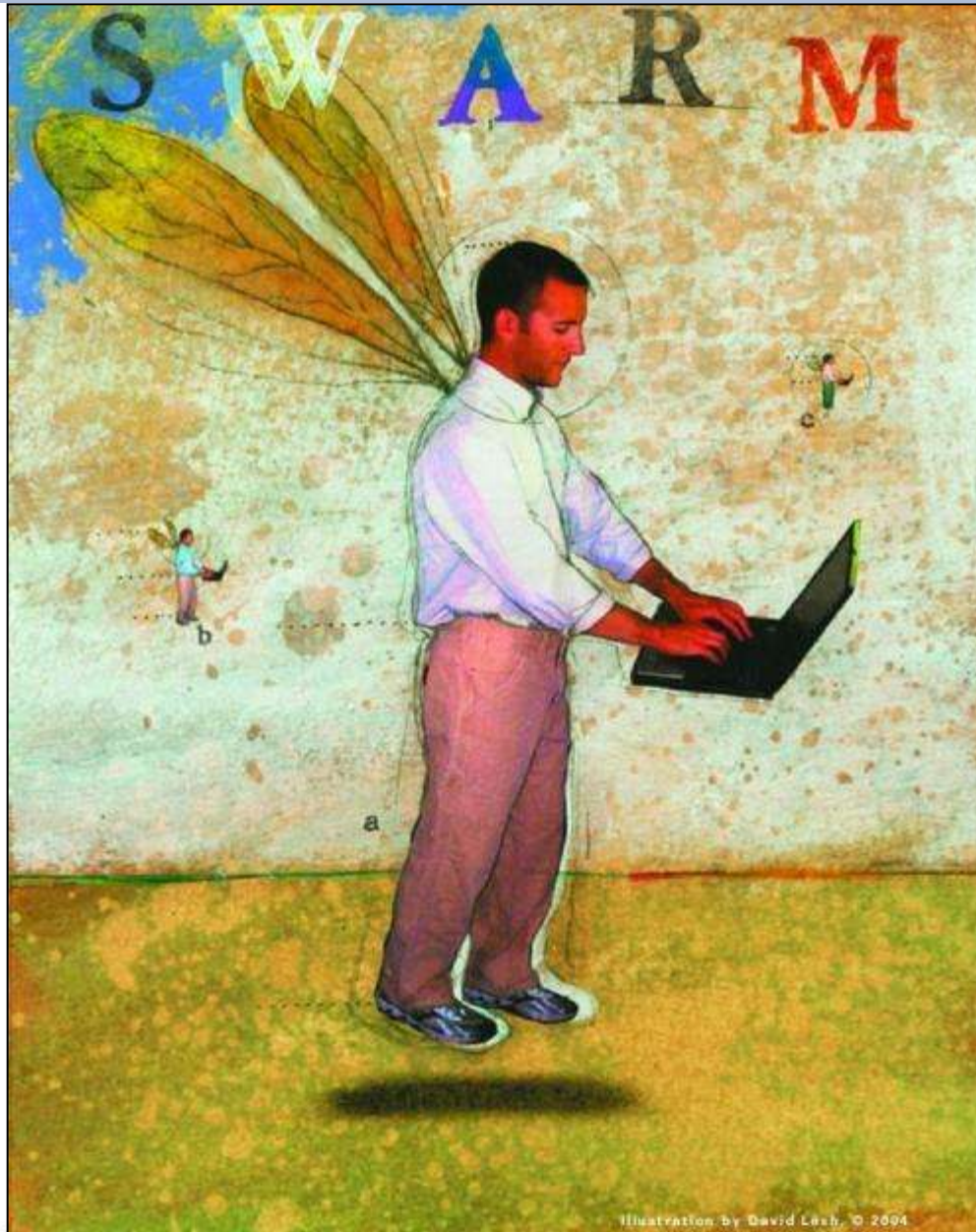
Learner  
Information

Content



HE:

## m-Learning at KNOU



**The  
socializing powers  
of mobility  
and wirelessness  
could expand  
the drive  
into  
collaboration.**



## m-Learning at KNOU

### Title Window of m-Learning



University announcement

Academic announcement

Mobile Classroom

Menu

## M-Learning at KNOU

University  
Announcement

Academic Affairs  
Announcement

Mobile Learning Class

Department Grade Semester

List of  
Courses



# Layout of **Mobile** Solution

**Solution promote the renovation to the new paradigm of KNOU U-CAMPUS**



**Student**

- **Using new information sharing device Mobile Phone make renovation to U-Campus**
- **Academic affairs**
- **Service for KT 3G SHOW user**

● **On-Line schooling Provide the supplementary materials → Academic Calendar, On-Line lecture , Academic Information Community**

**Faculty member**

● **Mobile Groupware Supply for Administrative Faculty Members → Real time service for Faculty Members for Managing Academic Affairs**

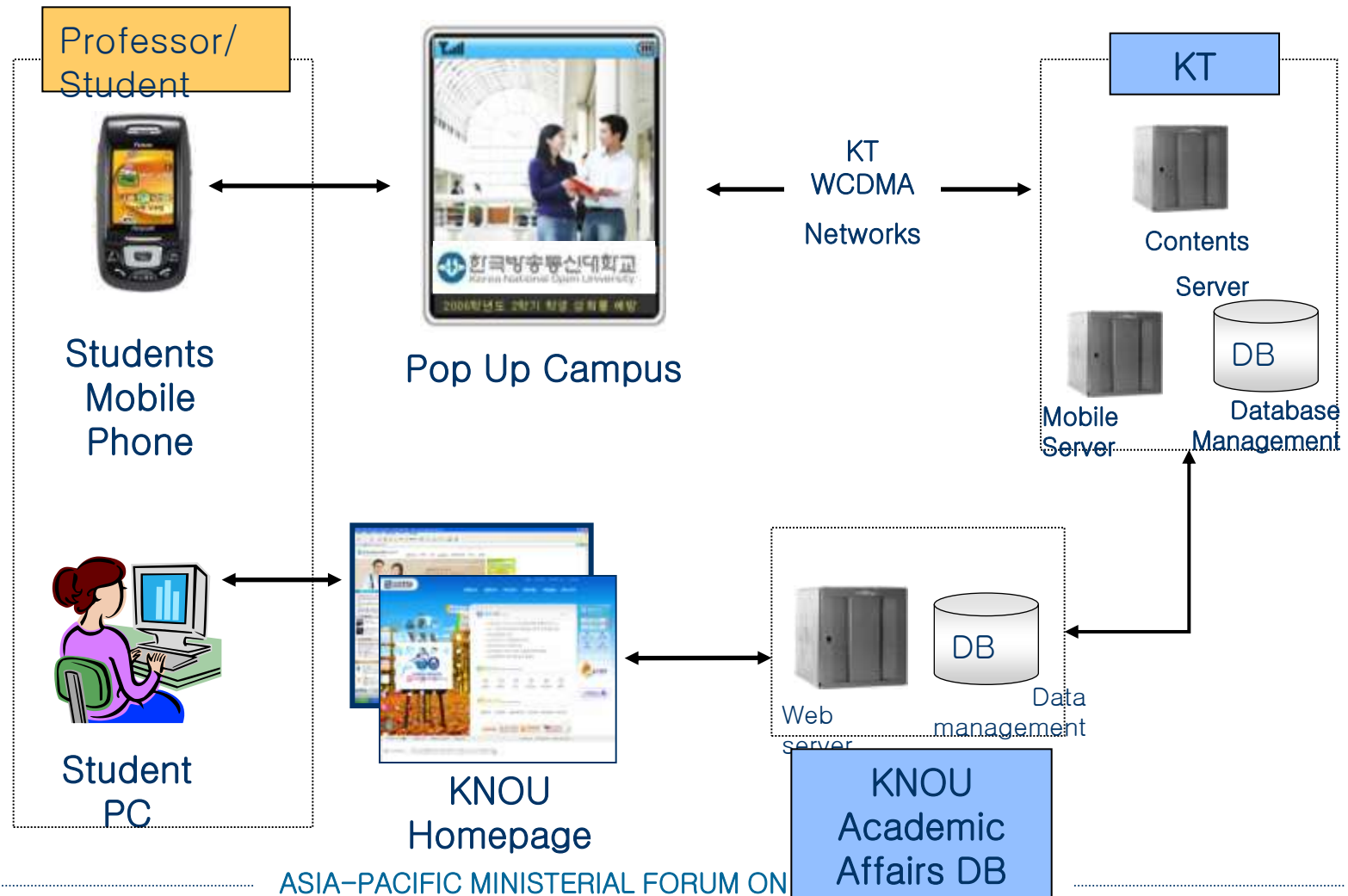
**Alumnai**

● **Mobile Community for Alumnai Network Community → Job searching and exchange information**



# 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**



# Support for the student's Mobile Learning for degree

Distance Learning for HE:  
from Korea

LMS

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

CMS

● 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

User Guide

Manage  
Student ID

Student IDDL

### Campus News

My Email

Academic  
Calendar

Event  
Announcement

Academic  
Affairs

Directory

Student/Alumni

### 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 I

TV

Radio

AudioTape

Internet Lecture

My Mobile Lecture

### Library

Library Guide

Book Search

Book Request

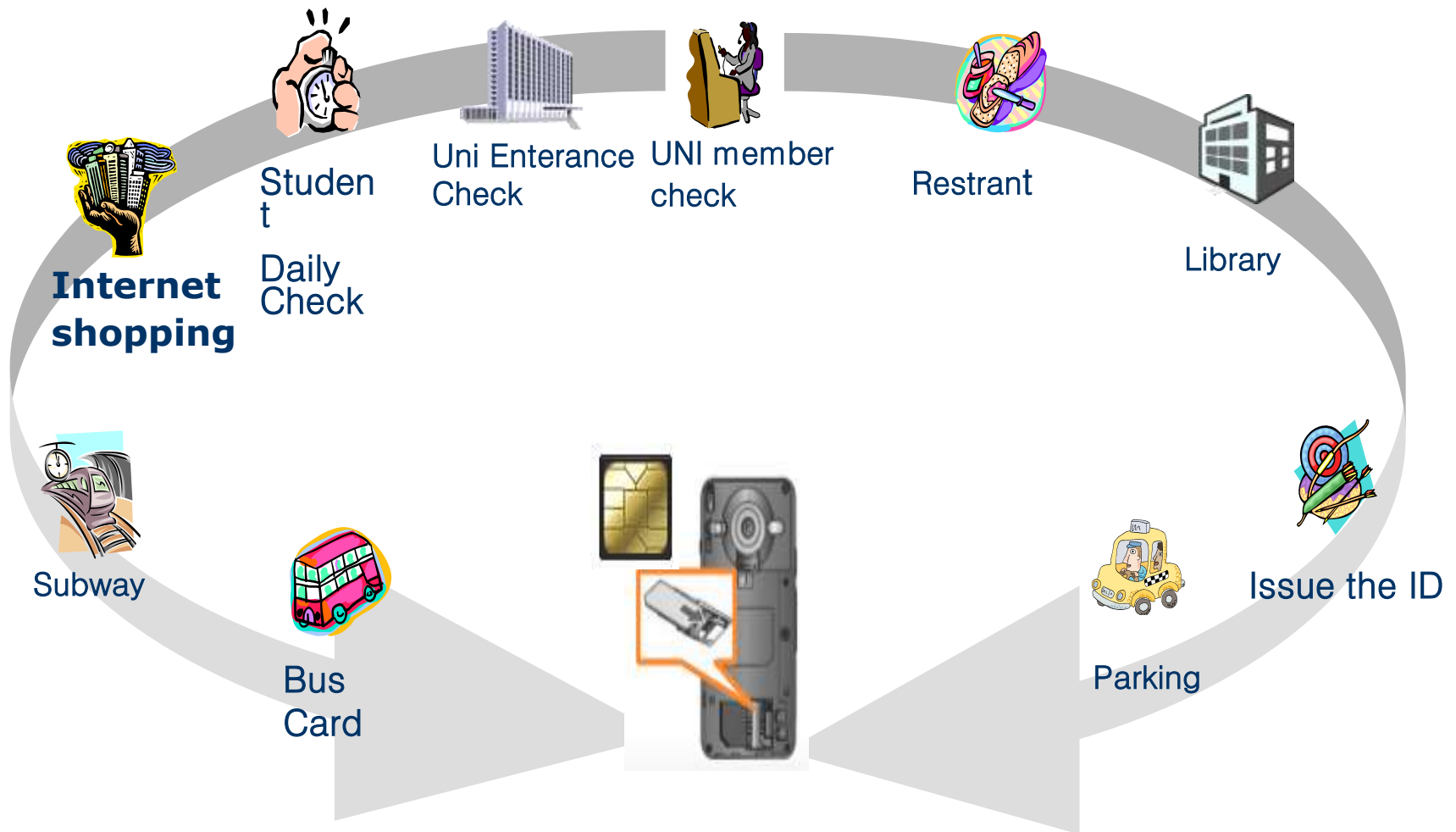
My Library

Checkout List

Checkout/Extension/  
Reservation



# USIM Based Campus solution

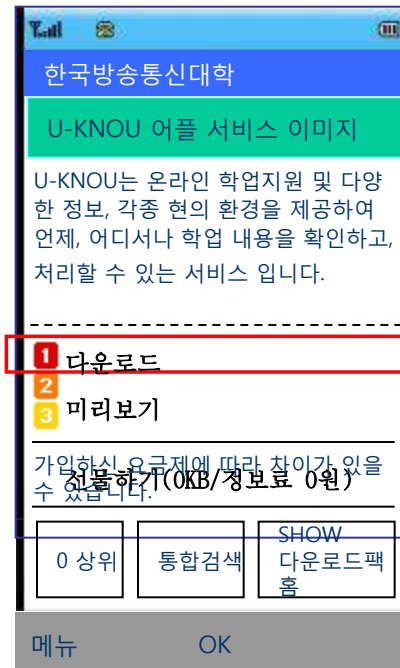
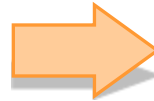


**Academic ID, transport Card, Cash Card,**

## m-Learning Service



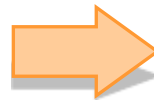
**Start with  
ID Number**



**Menu Orientation**



**Menu of Download**

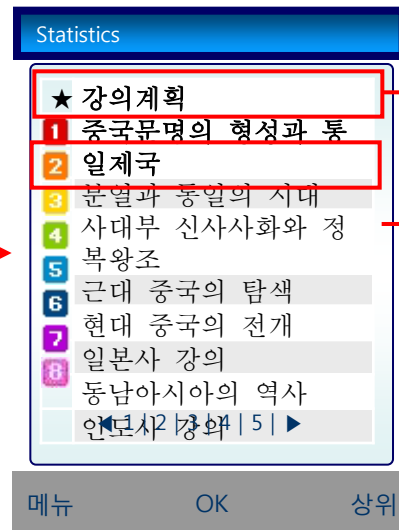


**USER Registration**

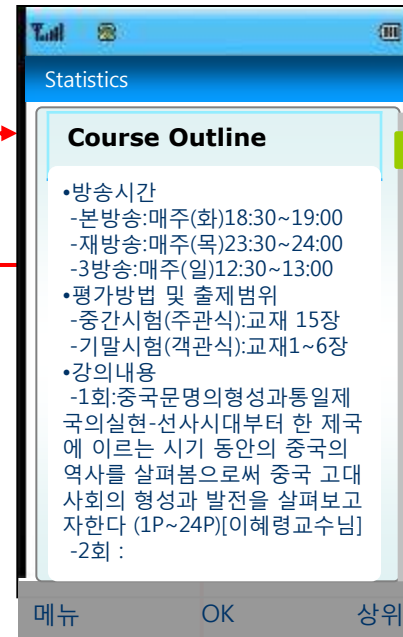
## m-Learning Class Menu



- M-Learning Class Window
- VOD/AOD Courses - e-Contents Service



### List of Courses



### Details of Selected Course



### m-Lecture

## Spec for m-Learning

Input Type: mp4v  
 240\*192, 176\*144  
 10.00 Frame/sec  
 Sample rate: 8000 sample/sec  
 Sample per bits: 16bit/sample  
 Play channel: 1 channel  
 Bitrates: 128 Kbit/sec





## Demonstration



## Future Agenda

- **OER**  
Open Educational Resources
- **Integrated Systematic Quality Assurance**  
provider and learner
- **Construction of CTL**  
strength of center for teaching and learning
- **AAOU Smart Sharing Program**  
under the MOU AAOU member could share U-Learning courses



# Q & A

