

Changes in e-Learning Service of University through IMS Standards

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Create value for Customer
Challenge the future

I

Global e-Learning Tech Trends

II

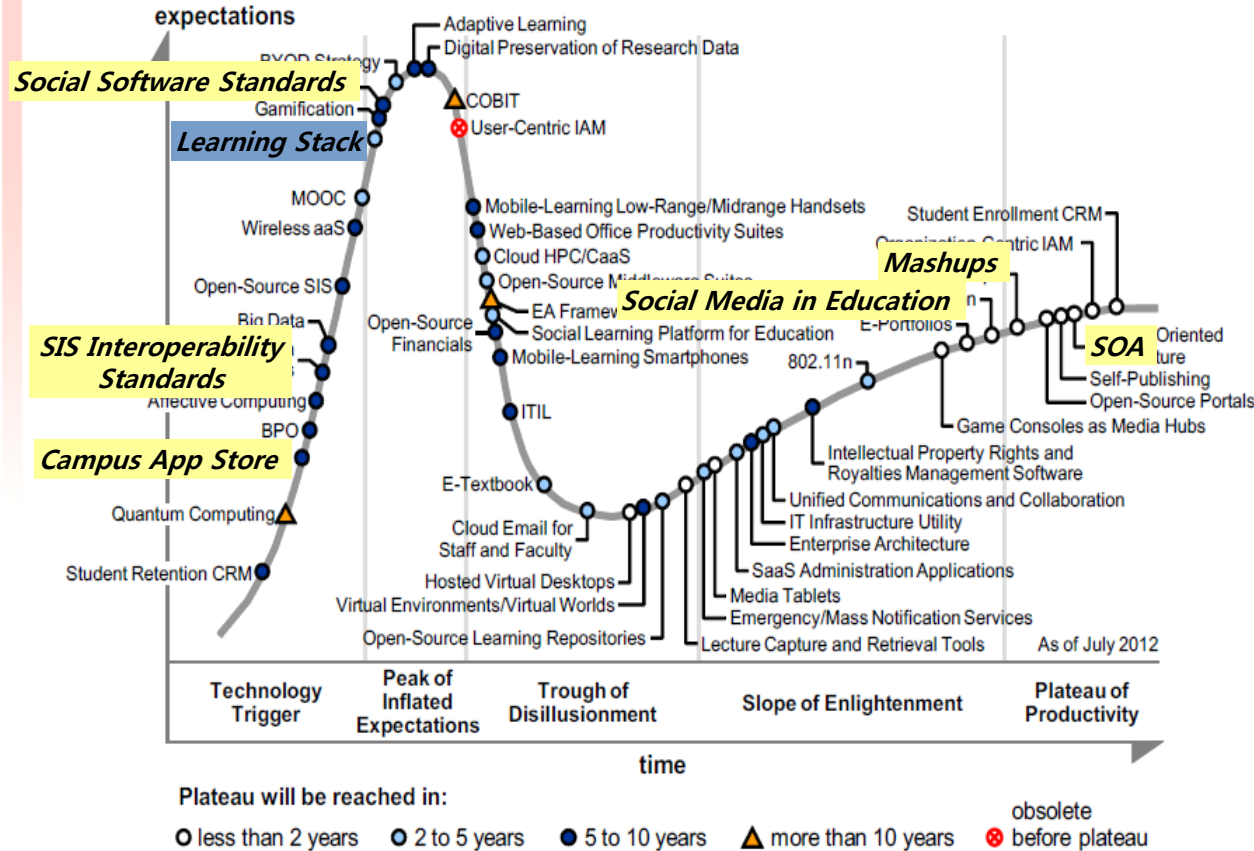
Sustainable / Agile / Service Oriented

III

Case Study

◆ Hype Cycle for Education 2012(Gartner)

◆ Years to mainstream adoption



less than 2 Years	<ul style="list-style-type: none"> • <u>Service Oriented Architecture</u> • <u>Mashups</u> • <u>Social Media in Education</u> • Media Tablet • E-Portfolios
2 to 5 Years	<ul style="list-style-type: none"> • <u>Learning Stack</u>, MOOC • E-Textbook, BYOD Strategy
5 to 10 Years	<ul style="list-style-type: none"> • <u>Campus App Store</u> • <u>Social Software Standards</u> • <u>SIS Interoperability Standards</u>

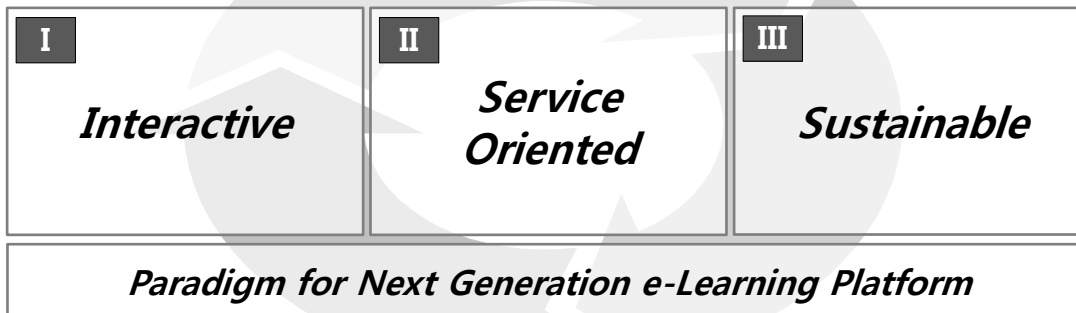
※ Source : Gartner (July 2012)

[**Interactive**] [**Service Oriented**] [**Sustainable**]

◆ Paradigm Shift

"Smart Learning, Smart Teaching, Smart Innovation"

Flexible and Expandable e-Learning Platform



I *Interactive Learning Platform*

- Knowledge Delivery + Interaction
- Seamless Learning Experience

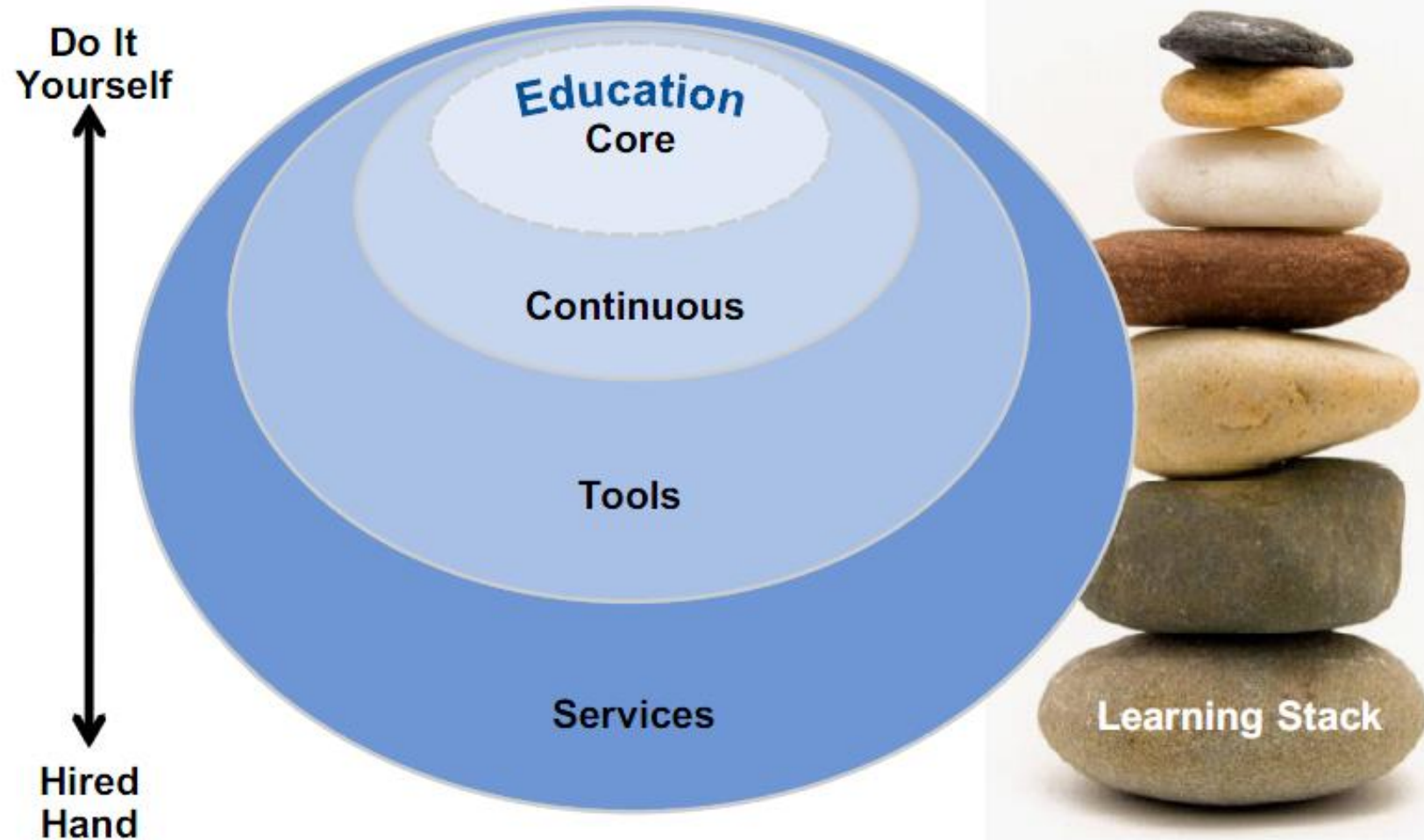
II *Service Oriented Learning Platform*

- Learning Service Oriented Architecture
- Flexible & Expandable Interface

III *Sustainable Learning Platform*

- Cost-effective interaction/ expansion/ development strategy required.

◆ Gartner Four-Layer Education Ecosystem



※ Source : Gartner (February 2012)

Build Learning Stack on a Context Platform

“Maintain an agile learning environment through flexible management.”



ERP = enterprise resource planning, IdM = identity management, SIS = student information systems

IMS Common Cartridge

Convergence Contents
with various types of Learning Resources



Construct Personalized Coursework
for Various Teaching & Learning Model



IMS LTI(Learning Tools Interoperability)



IMS Global Developer

developers.imsglobal.org/catalog.html

home catalog tutorials forum extensions alliance

ims global's learning tools interoperability

righteous!

LTI is a standard way of integrating rich learning applications which are often remotely hosted and provided through third-party services with platforms like learning management systems, portals, or other educational environments

[Everything here is IMS LTI Certified!](#)

learning tools interoperability catalog

Use LTI tools inside these platforms- [See what they support](#)
click icon for more info

ebook tools

CourseSmart
Find and access eTextbooks and digital course materials

Courseload
Delivers course materials through any web-enabled device

VitalSource
Integrated online, downloadable and mobile access for your e-textbooks

nook
Use Nook Study to read your ebooks and texts

eportfolio tools

Chalk & Wire
ePortfolio authoring, assessment system, and data analysis tools for students, faculty and professional staff in higher education and K-12

Mahara
Open source eportfolios where you can collect, reflect on and share your achievements success.

Pathbrite
ePortfolios help students collect, track and showcase a lifetime of learning and achievement, and recommend pathways for continuous success.

PebblePad
Users create records of learning, achievement, and aspiration

collaboration tools

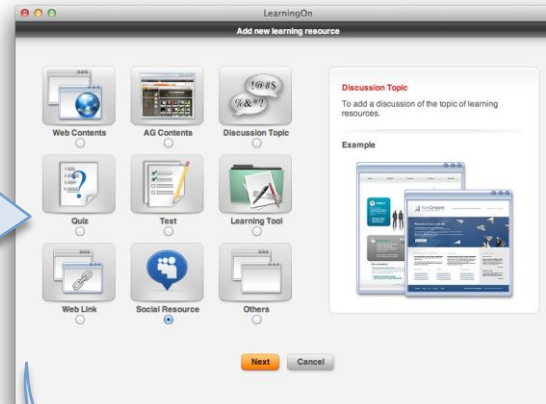
Learning Objects
Social software for learning

LTI Plugin for Vanilla 2
Provides forum capability via a LTI connection

Elgg
Create your own fully-featured social networks and applications

LTI(Learning Tools Interoperability)

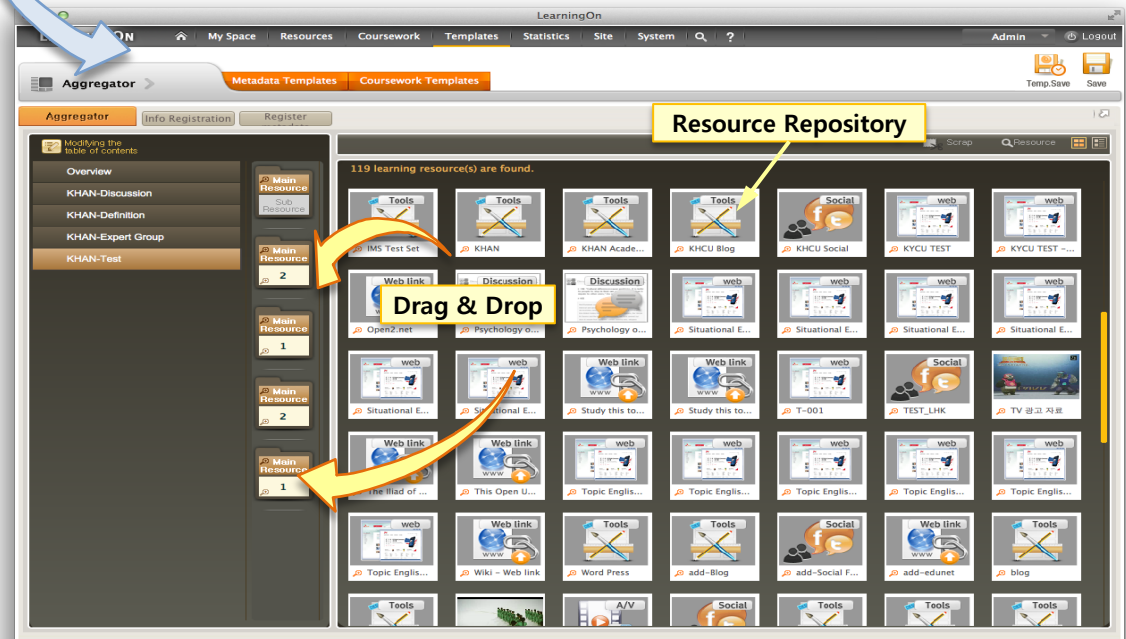
① Choose Learning Tool



② Import Learning Tool

③ Edit Metadata

④ Aggregate Learning Contents and Learning Tool



Learning Tools Interoperability
Learning & Teaching Instantly!

Seoul Cyber University (Korea)

서울사이버대학교 CDMS - Windows Internet Explorer

http://lecture.iscu.ac.kr/cdms/progress/aggregator.do?letAggregator.acu?contents_seqno=36048/WEEKNO=1&seqno=52080&stage=270&stage_num=11

서울사이버대학교 교육학계론 수업안내 1주차

컴퓨터의 개념과 구성

'Content + Activity' Combine

기법을 활용한 학습 설계

검수 완료된 스토리보드를 디자이너에게 제작 요청

제작된 개발물은 스토리 보드와 비교하여 검수

디자이너

✓ 교수 설계된 자료를 바탕으로 디자인 및 코딩 제작을 한다.

✓ 제작된 개발물에 대한 UI/UX 개발 및 제작 지침을 마련 한다.

부동산간접투자

다지선다 O/X 단답형

퀴즈문제 생성

Q SK C&C의 기업 가치는?

1.

2.

3.

4.

저장

퀴즈문제 목록

문제추가

OX 형 SK C&C의 기업가치는 X

다지선다 윤리 경영이란? X

단답형 좋은 기업 문화 만들기 위한 방법은 무엇일까요? X

자료연결 저장

Category: Abstract

Learning Resource

Video Audio Image Quiz

Slide Links Files YouTube

Flickr

Learning Activity

Twitter Bookmark Forum Assignment

Project Poll Board Facebook

◆ The 3rd LMS at Universitat de Catalunya (Spain)

From

To



Inside the computer
Centralized information
One design for all
Faculty and students adapting to the campus

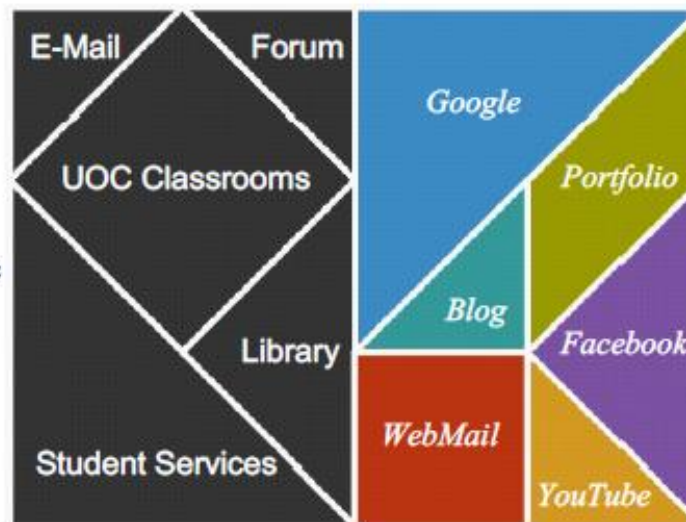
Many channels
Flexible and interoperable
One design for every user
An environment that adapts to the users' needs

Ellen's Campus



PC/Mac

Ben's Campus



iPhone



E-Book



PC/Mac



PDA



Daisy



Susan's Campus



Michael's Campus



Source: UOC

Jazan University (Demonstration)

The screenshot displays the Jazan University website interface. The top navigation bar includes the university's name in Korean (건양사이버대학교) and English (Jazan University - Computer Science (2)), along with links to 'Table of contents' and 'Computer Science_R'. A sidebar on the left lists various resources: 'Jazan University - Computer Science (2)', 'Table of contents', 'Computer Science_F', 'Computer Science_R', 'JazanuTV_DLD (Youtube)', 'Computer Science_Quiz', 'Computer Science_Discussion', 'Forum Students', 'Scientific Journal (Portal)', 'e-Journal (SDL Library)', 'e-book (SDL Library)', 'I-book (JUSUR)', 'Discussion Forum (3rd Party)', 'SNS_Facebook Group', 'SNS_Twitter Expert', 'SNS_Google Image', and 'SNS_Twitter Feed'. The main content area features a video player with a green and blue background. The video title is 'مقدمة في الحاسب الآلي' (Introduction to Computer Science). The video player includes a progress bar showing 00:05 / 0:28:21 and a list of video segments: 1. مقدمة في الحاسب الآلي, 2. مقدمة, 3. مكونات نظام الحاسب الآلي, 4. الفرق بين البيانات والمعلومات, and 5. مزايا استخدام الحاسب الآلي. The bottom of the interface shows social media icons and a footer with 'Page | 10'.

contact us
at



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thank you

Q & A

