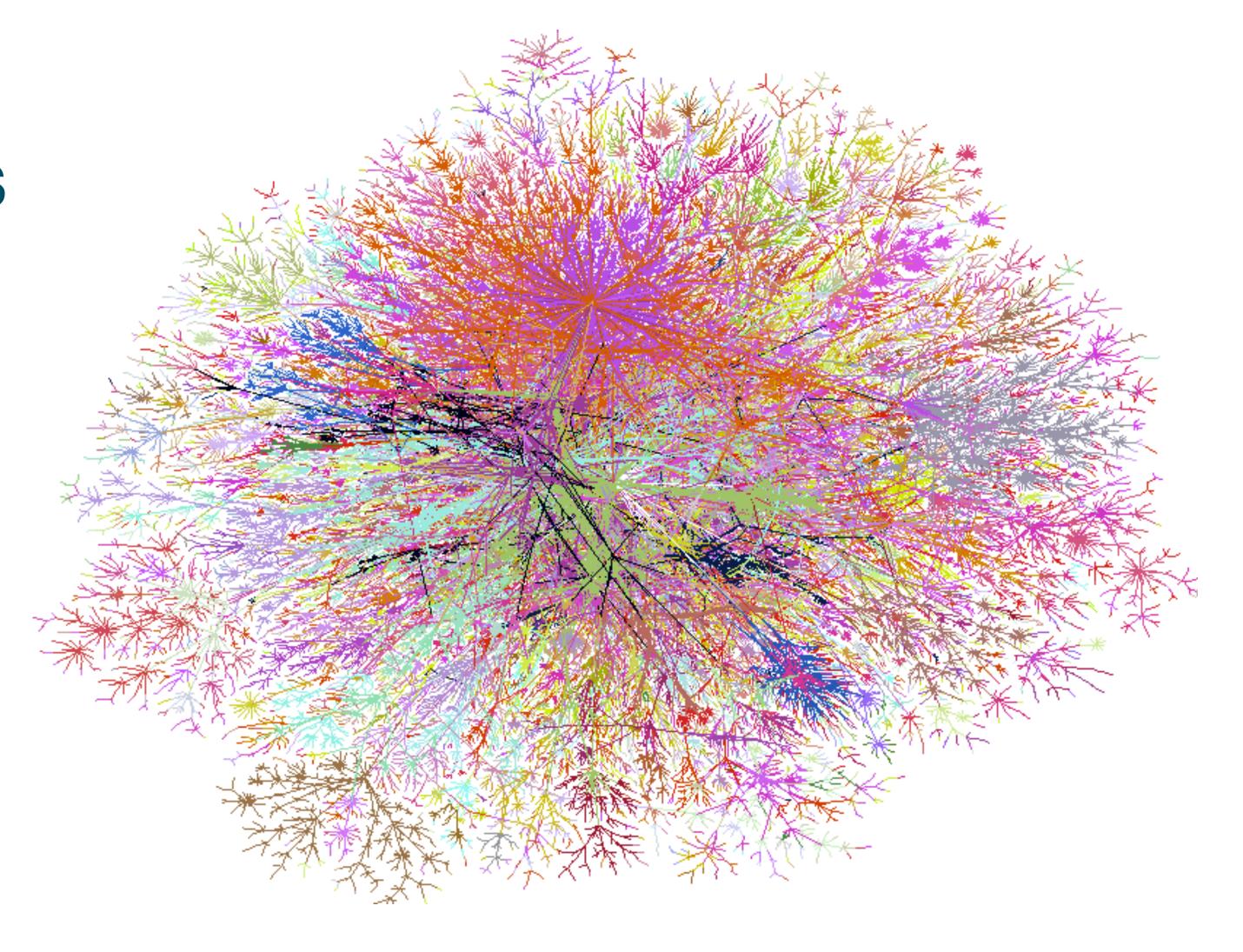


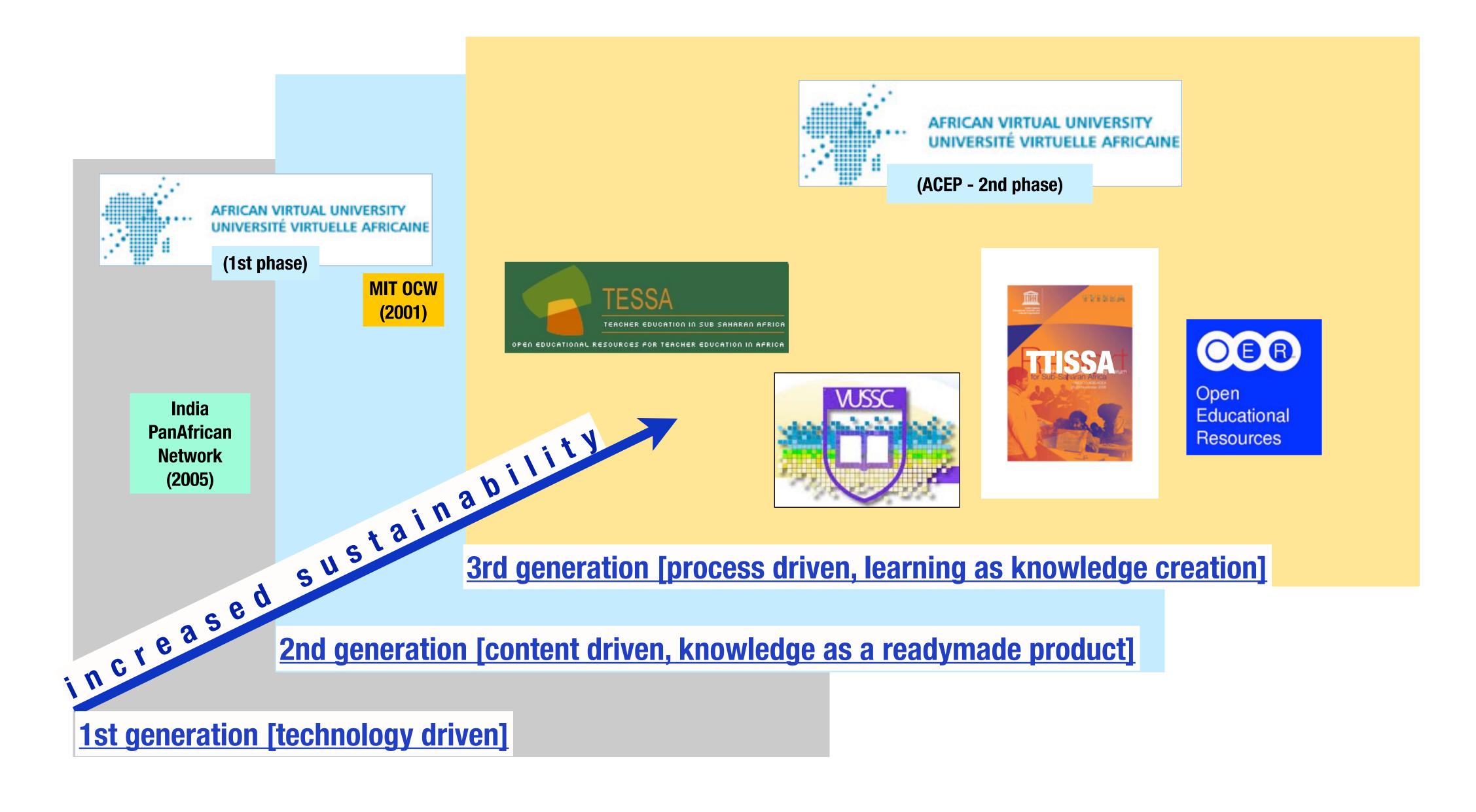
Monday, April 9, 12

Borderless e-Contents

- eContent history at a glance
- One size DOES NOT fit all
- Learning Objects
- Evaluation criteria
- Repositories
- HBMeU case study



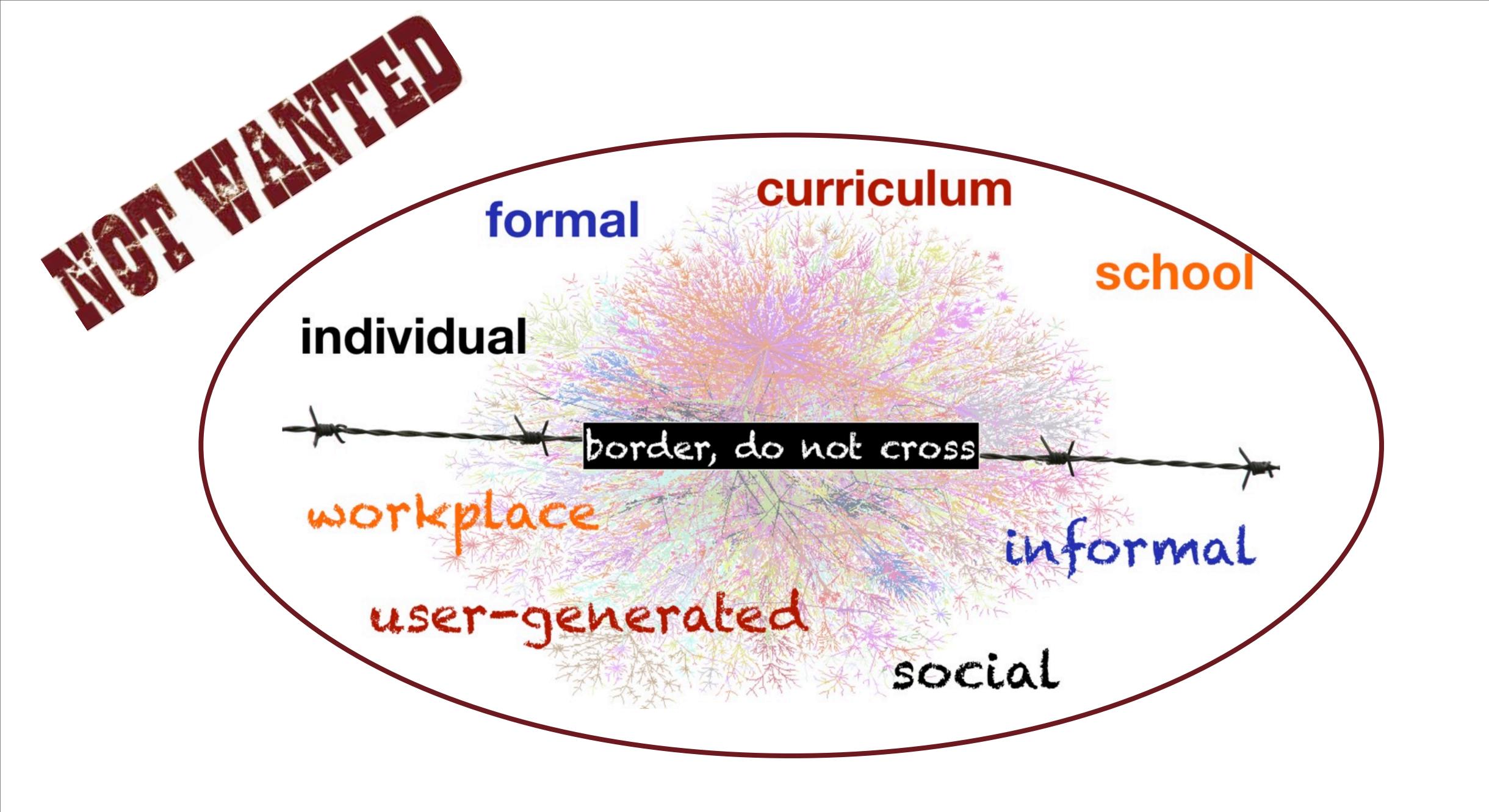
large scale e-contents history, at a glance



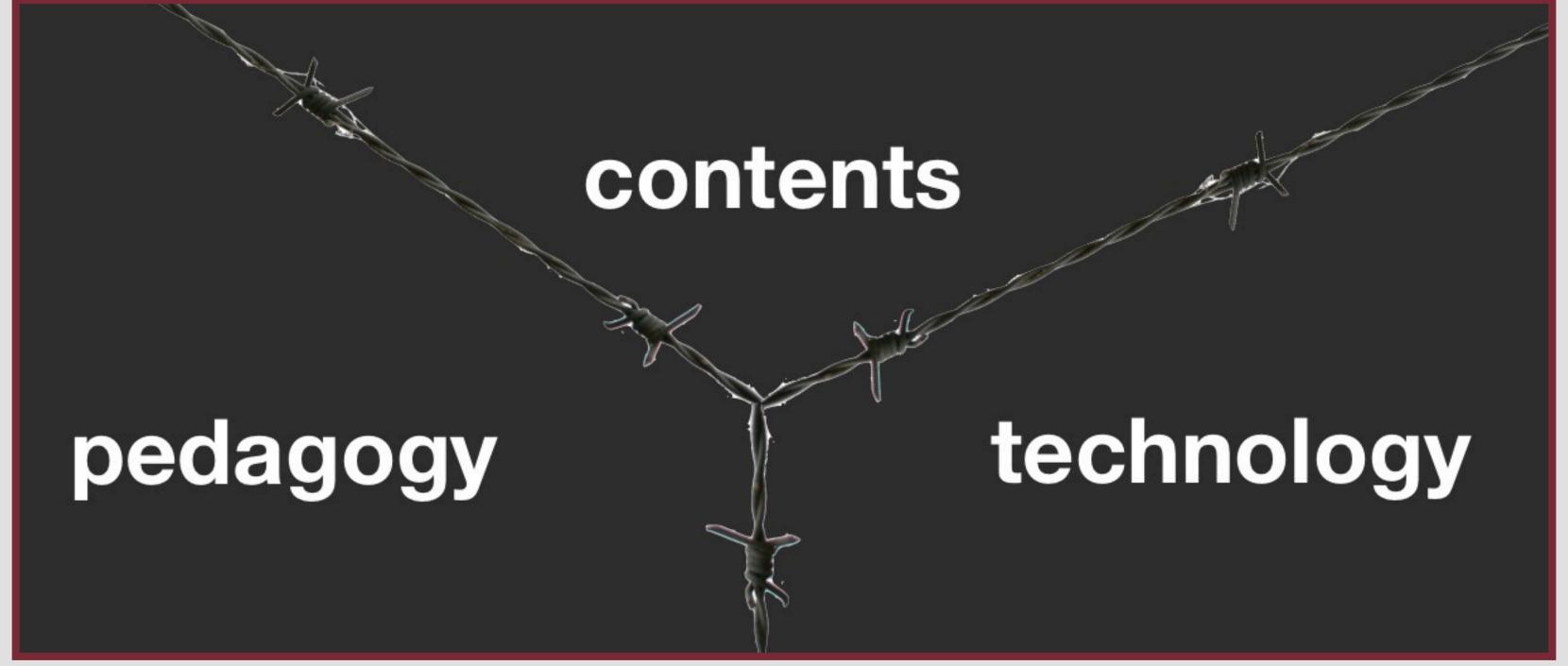
3rd generation [process driven] Knowledge as a dynamic process - Learning as knowledge creation

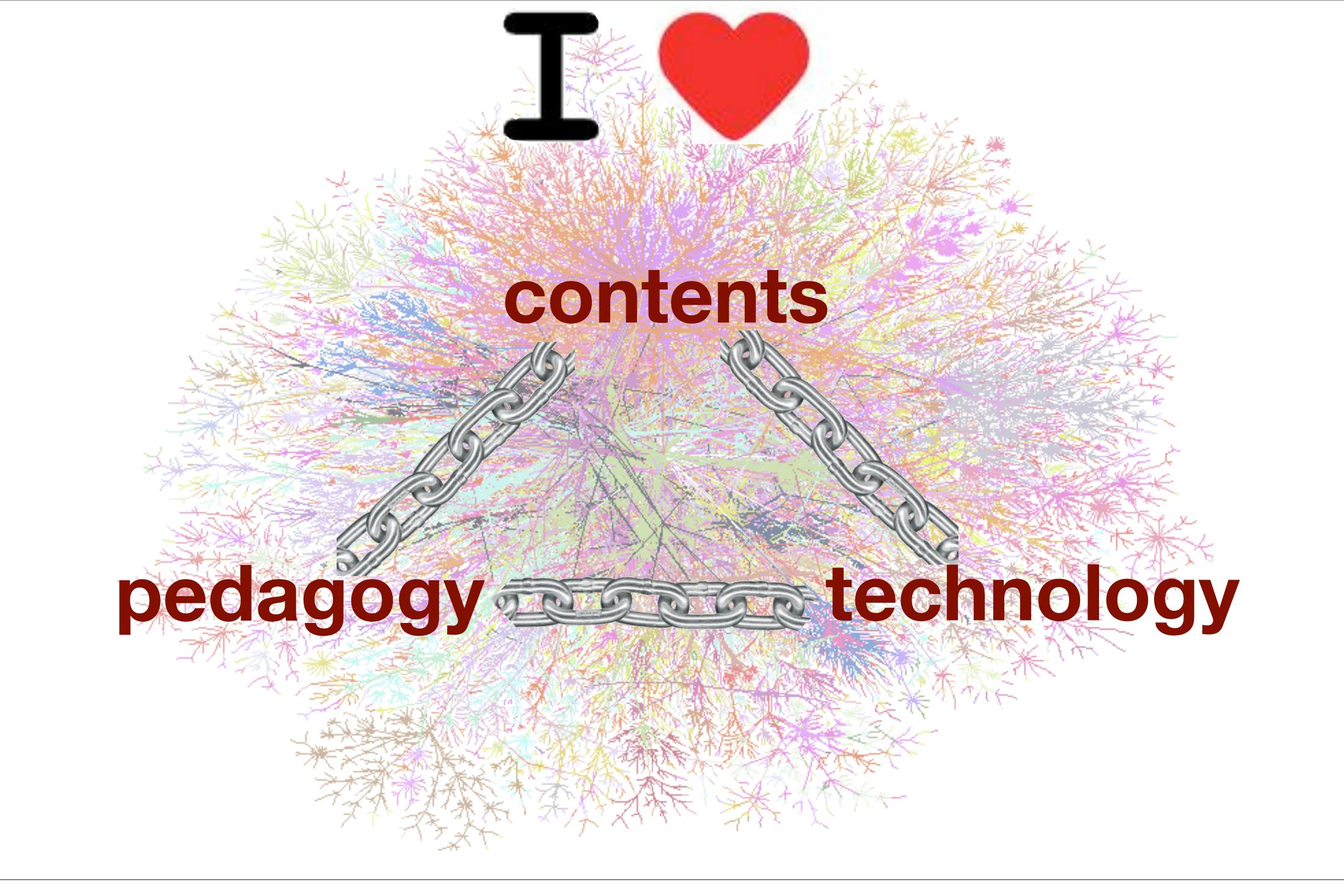
e-Contents development, from a content-driven approach to a process driven one?

2nd generation [content driven] Knowledge as a product











traditional curriculum



top-down transmission



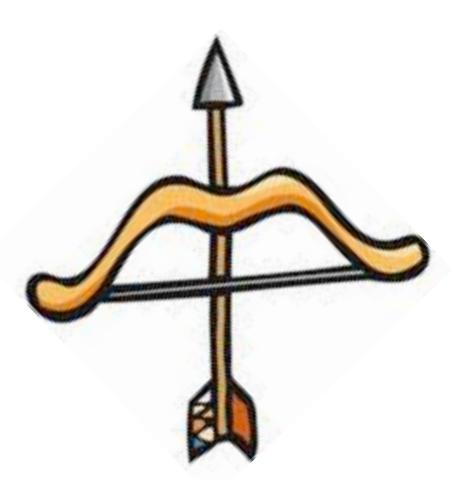
passive recipients of the teacher's knowledge



user-generated content



bottom-up participation



proactive knowledge builders



THE WAR FILL



We want e-contents that will contribute to turn passive learners into proactive knowledge builders

NOT WANTED



passive recipients of the teacher's knowledge

proactive knowledge builders



HIGH QUALITY



traditional curriculum







We want QA and accreditation frameworks that allow to validate user-generated e-contents and integrate them into academic programs.



traditional curriculum



user-generated content





We want a mix of high quality e-contents

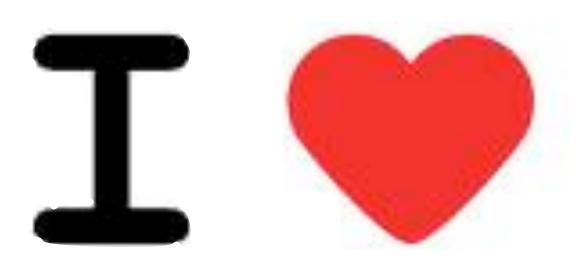
AND user-generated dynamic contents

AND reliable e-learning materials

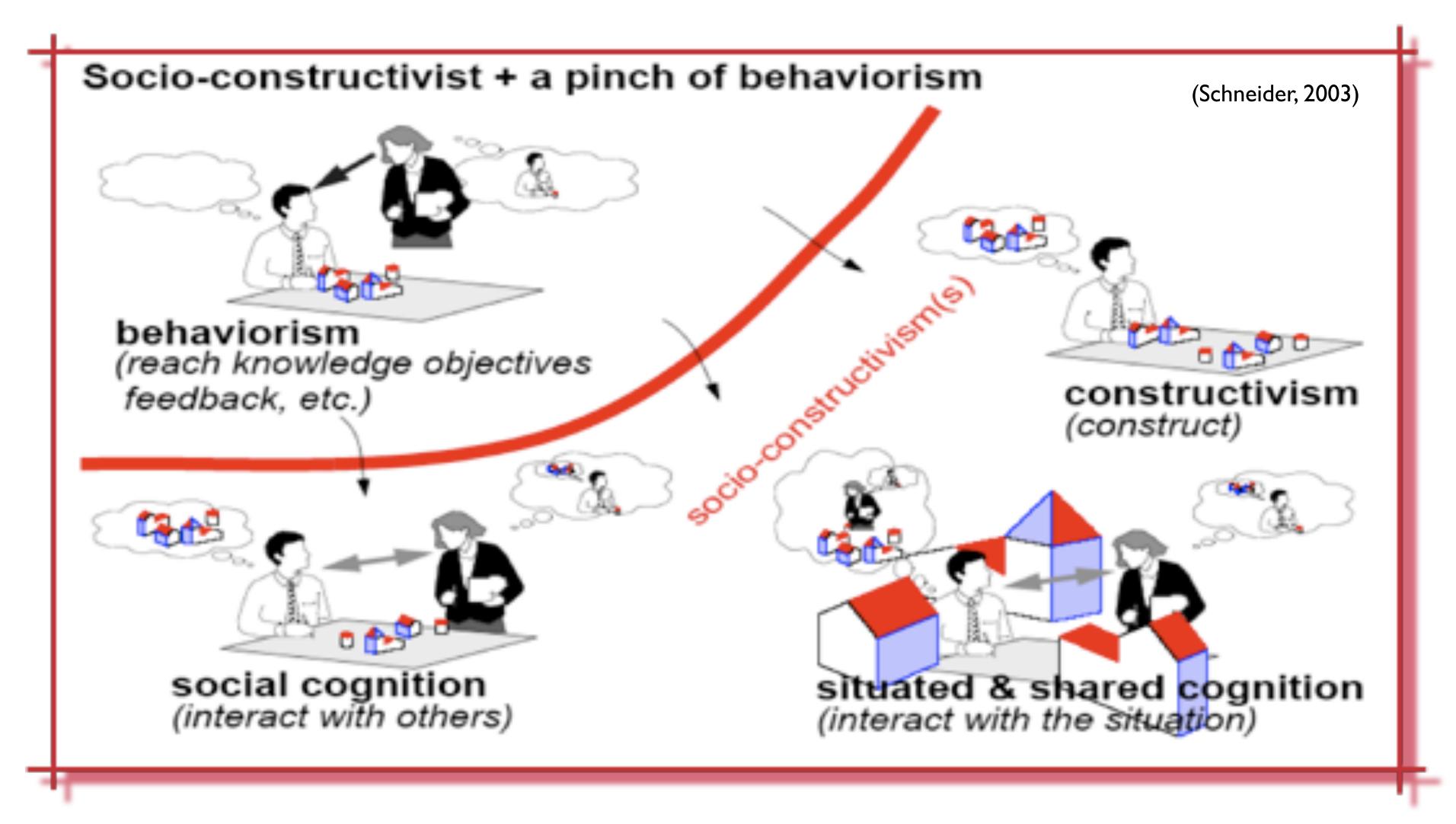
AND engaging activities.



We want e-contents that can be recycled, so that we do not need to re-invent the wheel all the time.



We want blended e-contents, combining traditional perspectives with socio-constructivist ones.



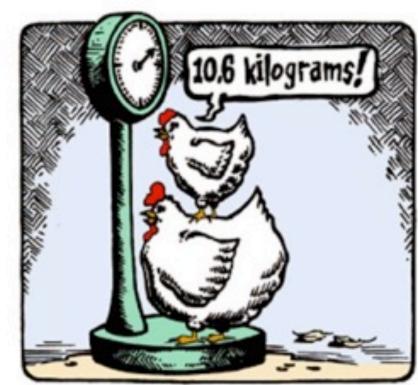
SCHOOL OF THE

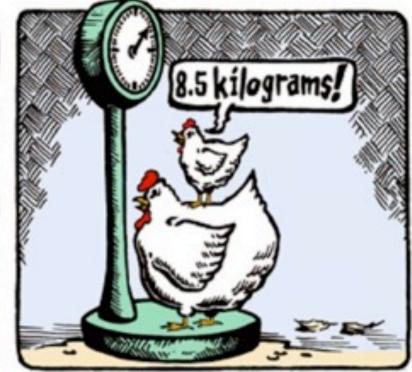
traditional school





learning object?









http://www.uwlax.edu/faculty/kosiak/projects/index.html

traditional school





SCHOOL OF THE

yes, learning object







4.1 kg

2 kg

from e-contents to learning objects, or how to ...





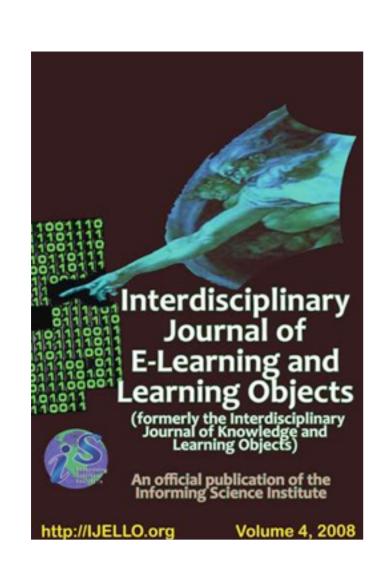






...e-contents

e-Contents as Learning Objects



The term Learning Object [LO] was first popularized by Wayne Hodgins in 1994 when he named the CedMA working group "Learning Architectures, APIs and Learning Objects".

An LO is "a discrete reusable collection of content used to present and support a single learning objective."

Peter Jacobsen (2002)

"Reusable Learning Objects- What does the future hold?"

LOs have become the Holy Grail of content creation and aggregation in the field of computer-mediated learning.

Why Learning Objects?



- interoperable (thanks to standards)
- reusable (thanks to CC, OER, etc)
- easy to retrieve (thanks to metadata)

Learning objects (LOs) facilitate the (re)-use of educational content online.

Internationally accepted specifications and standards make them interoperable and reusable by different applications and in diverse learning environments.

Metadata (tags, index) describe them, facilitate search and make them accessible.

Evaluation Criteria

Pedagogical Quality

Content clarity and conciseness, instructional strategies aligned to the learning objectives, appropriate media according to target audience, etc...

Ergonomy

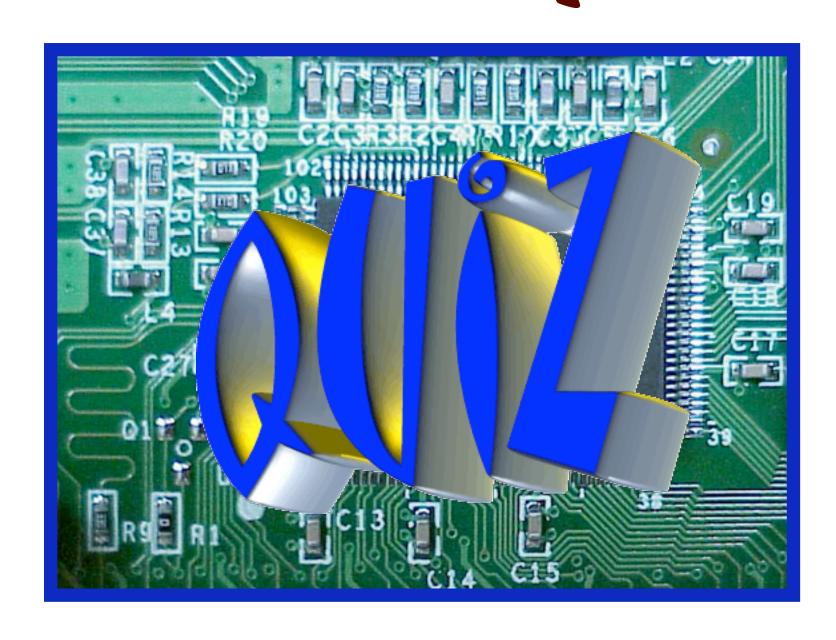
User-friendliness, motivating, visually attractive, built-in accessibility features, etc..

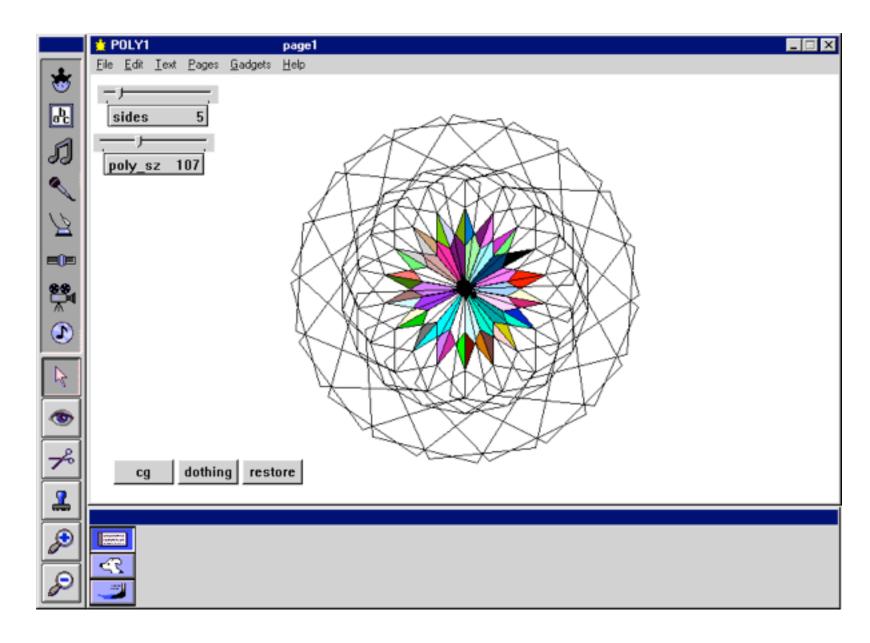
Interoperability, reusability

Technical independence and robustness, metadata schema and tagging procedures, conformance to standards



open nature?





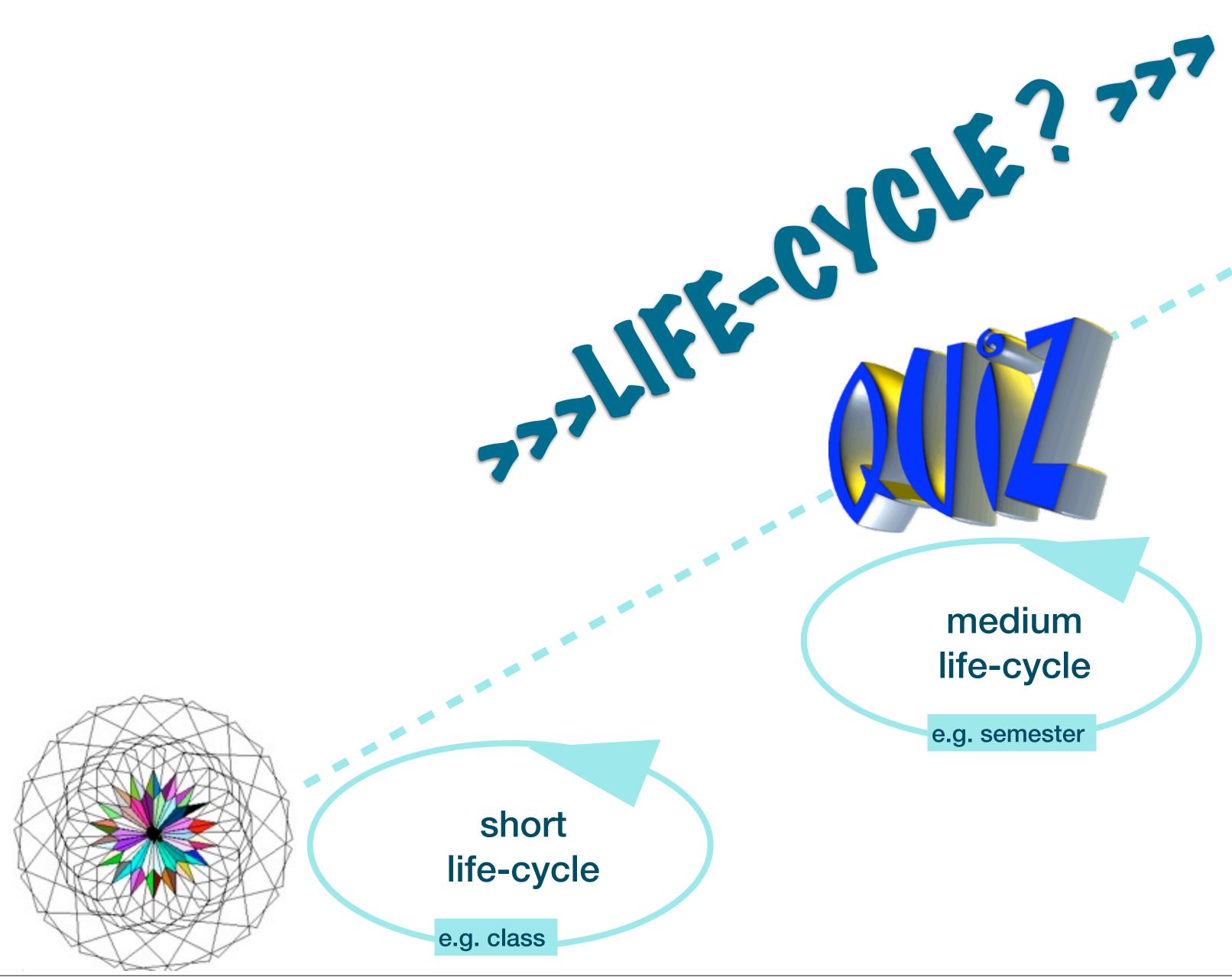
drill & practice	microworlds
behaviorist	socio-constructivist
fully automated	affordances
individual only	individual / collaborative
no human interaction needed	facilitates human interaction
closed set of predefined answers	open-ended answers

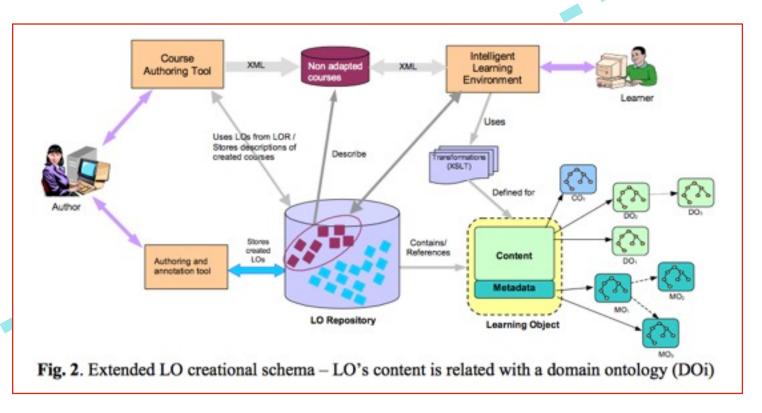
context free?



"we haven't resolved the tension between including context for effective instruction and excluding it to ensure maximum reuse of the object."

From "Reusable Learning Objects- What does the future hold?"
By Peter Jacobsen, e-learning Magazine, November 1, 2002
http://www.elearningmag.com/elearning/article/articleDetail.jsp?id=5043





expensive

long life-cycle

e.g. in line with course or program review cycle

Types of Repositories for Learning Resource

Private repositories

author bibliography and productions students personal portfolio course student production showcase

A few metadata, quality is in the usefulness of the repository to the participants

Community repository

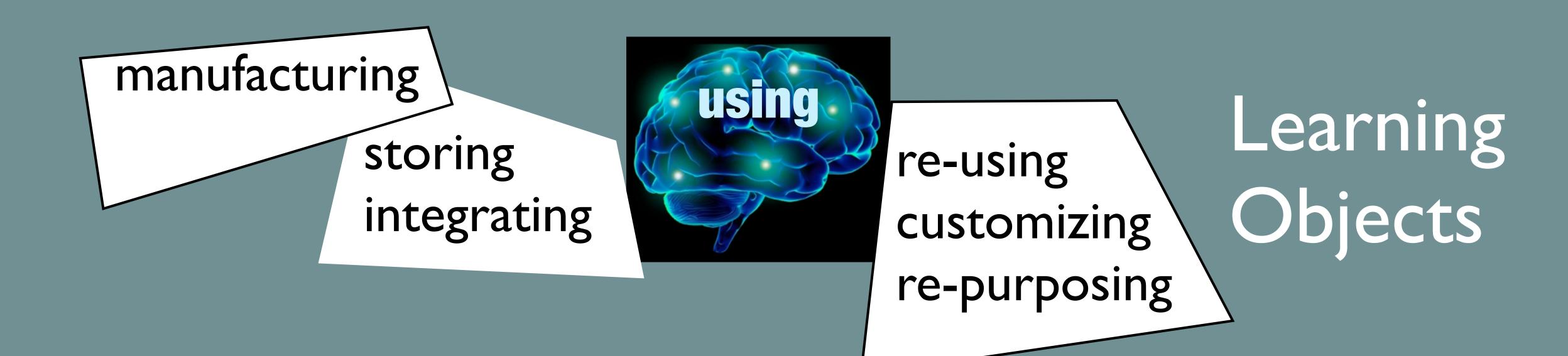
a university department, a community of practice a research repository

larger effort/investment higher degree of quality insurance, needs a domain ontology (specific classification and relation between resources)

Public repository

totally open (e.g. Creative commons) limited access or repository

Protect the consumer Protect the IP through CC or a digital rights management (DRM) system.



Hamdan Bin Mohammed e-University Case Study

http://repository.hbmeu.ac.ae/lor/access/searching.do units Results Basics of Visual Communication A to liture about a state of visual Communication but results be embedded in the design of any nullinoid artifact to ensure of the units and units of visual communication A should be affected on the design of any nullinoid artifact to ensure of the units and units of visual communication but result to account of any nullinoid artifact to ensure of the units and units of visual communication but results to design of any nullinoid artifact to ensure of the units and units of visual communication but results to design of any nullinoid artifact to ensure of the units and units of visual communication to the design of any nullinoid artifact to ensure of the units and units of visual communication to the design of any nullinoid artifact to ensure of the units and units of visual communication. ***Market Communication** **Acceptation** **Acceptation**

"Learning objects are THE MAIN course material, not simply additional support for self-study."









LOs' role similar to digital text-books





Reference documents semester-wise [syllabus, timetable, outcome-assessment maps, etc]

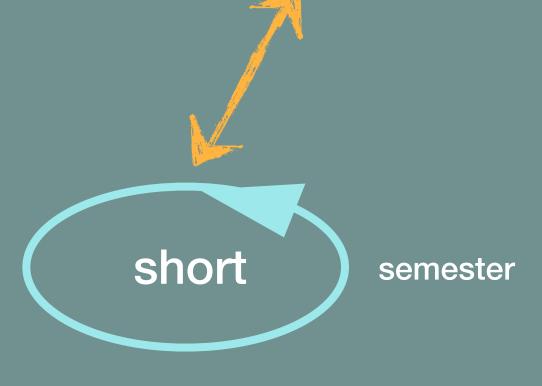
[Selected LOs + User Generated Contents]

Context will be embedded THERE



in line with course/program review cycle





interactivity



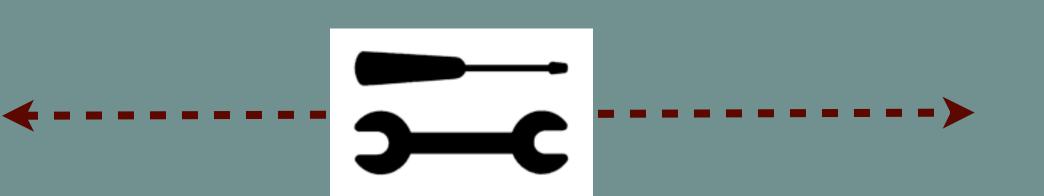


low level close set of questions, fully automated



high level open-ended questions human interaction

Equella search engines



discussion forums, wikis, blogs, etc

210DMM218 - DEVELOPING MULTIMEDIA MATERIAL

LO1 - table of contents

RELATED COURSE LEARNING OUTCOMES

CO1. Demonstrate an effective understanding of the design and evaluation of multimedia technologies.

CO3. Evaluate a variety of multimedia technologies and tools.

1. Basic Principles of Visual Communication Design (lecture)

Prof Senteni (voice over PPT, 19 mn)

2. Quick analysis of a poster (activity)

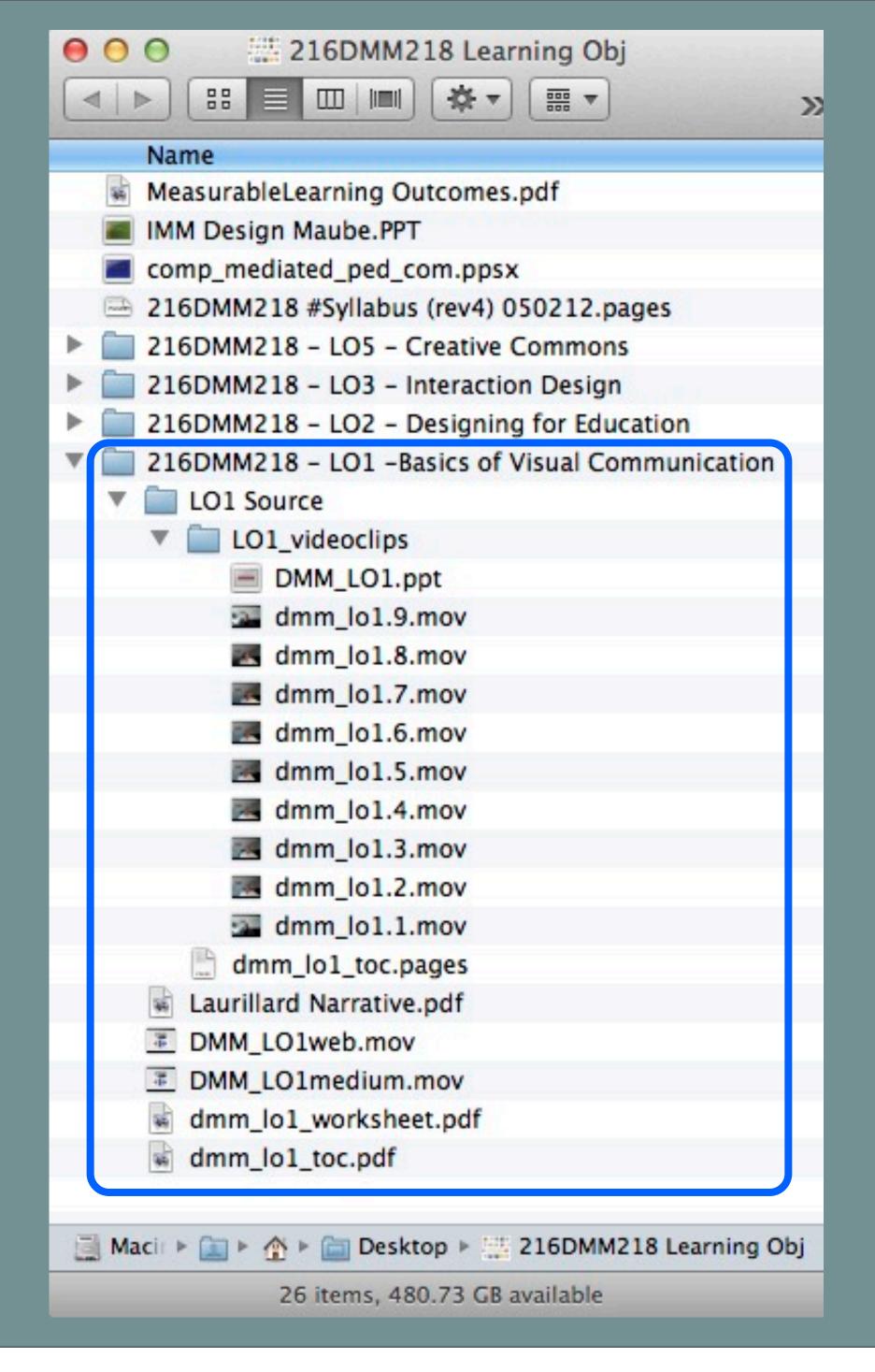
with regard to Calvino's dimensions (VMELQC), and learning dimensions (IMPC), using the provided visual analysis worksheet (dmm_lo1_worksheet)

3. Poster analysis (additional PPT on Slide Share)

http://www.slideshare.net/Jade_16/poster-analysis-2154048

4. Laurillard's Multimedia Narrative

Summarize and comment the article (Laurillard_Narrative)



210DMM218 - DEVELOPING MULTIMEDIA MATERIAL

LO1 - table of contents

RELATED COURSE LEARNING OUTCOMES

CO1. Demonstrate an effective understanding of the design and evaluation of multimedia technologies.

CO3. Evaluate a variety of multimedia technologies and tools.

1. Basic Principles of Visual Communication Design (lecture)

Prof Senteni (voice over PPT, 19 mn)

2. Quick analysis of a poster (activity)

with regard to Calvino's dimensions (VMELQC), and learning dimensions (IMPC), using the provided visual analysis worksheet (dmm_lo1_worksheet)

3. Poster analysis (additional PPT on Slide Share)



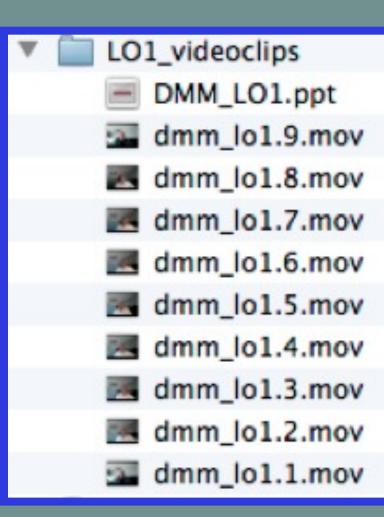
http://www.slideshare.net/Jade_16/poster-analysis-2154048

4. Laurillard's Multimedia Narrative



Summarize and comment the article (Laurillard_Narrative)

Open Educational Resources (OER) are defined as "technology- enabled, open provision of educational resources for consultation, use and adaptation by a community of users for non-commercial purposes."





Contents

Introduction

Basic Principles of Visual Communication Design

Video 2

Video 3

Video 4

Video 5

Video 6

Video 7

Video 8

Video 9

Assessment

