m E d u c a t o r

meducator
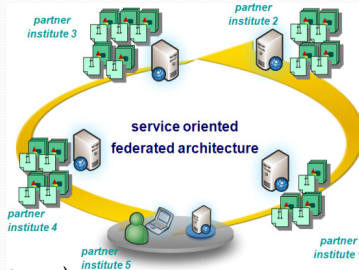### world wide med

eContent*plus*

Multi-type Content Repurposing and Sharing in Medical Education

mEducator Scope

- Implement and critically evaluate existing standards and reference models in the field of e-learning in order to enable specialized state-of-the-art medical educational content to be discovered, retrieved, shared and re-used across European higher academic institutions.
- Medical educational content within:
  - ➢ traditional instructional teaching
  - ➢ to active learning and experiential teaching/studying
- Content types
  - ➢ from text to exam sheets
  - ➢ Algorithms
  - ➢ teaching files
  - ➢ computer programs (simulators or games)
  - ➢ interactive objects (virtual patients, electronically traced anatomies)
- Covers a variety of topics

service oriented federated architecture

partner institute 1 – partner institute 2 – partner institute 3 – partner institute 4 – partner institute 5

mEducator Objectives

- Identify and collect a critical mass of different educational material types

- Examine to what extend
  - existing standards for description of educational material can address all types of health educational material (eg. Helathcare LOM)
  - existing standards support the packaging and seamless delivery of all types of material (eg. SCORM for Healthcare)

- Examine possible extensions of existing ontological schemata, which describe the semantics of Learning Object s(e.g. s-LOM ontology)

- Provide recommendations for standards extensions

- Interact with standardization bodies to adopt recommendations (eg. MedBiquitous Europe, IEEE, IMS, CEN, Health On the Net, HL7)

mEducator Solutions

mEducator will seek best practice by comparing two solutions:

mEducator 2.0 : Exchanging Content via "mash-up" technology and WEB2.0 tools for loosely coupled isolated LCMSs

mEducator 3.0 : Exchanging content via Semantic Web Services (SWS) technologies for federated LCMSs (Linked Data approach)
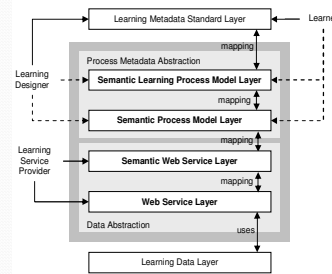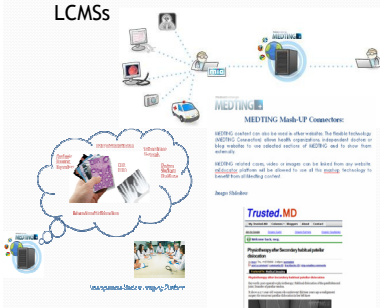
- Both mEducator solutions are currently in their beta version.
- Solutions are being tested by the target user groups of the project (students, educators, health professionals) using scenario-based evaluation and expert reviews.

Current focus
- Finalization of the mEducator ontology and evaluation and final customizations on the two sharing solutions
- Provision of material to non-partners to enable content-sharing

mEducator traditional and user-generated content

- ✓ Web2.0 based PBL/CBL
- ✓ MEDTING Clinical Cases
- ✓ Interactions with Virtual Patients
- ✓ Cases in the form of e-traces
- ✓ Interactions with serious games
- ✓ Text Book
- ✓ PowerPoint Presentations
- ✓ Photos
- ✓ Videos
- ✓ Medical Research Articles
- ✓ Medical Algorithms
- ✓ Exam Sheet
- ✓ Self Evaluation Exams
- ✓ …
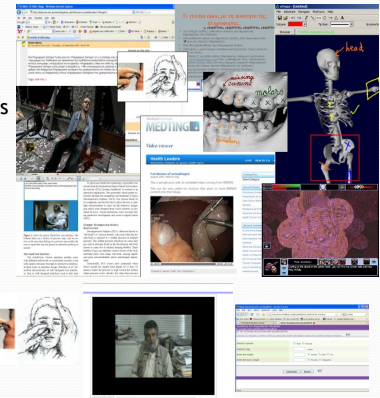
mEducator Clustering

- Clustering activities will focus on the following key areas:
  - o Technical standards for Education
  - o Multi-type content repurposing and enrichment
  - o Intellectual property
  - o Social computing, Web2.0 technologies, Medicine/Health 2.0
  - o Semantic Web Services and Ontologies Web3.0 technologies, Medicine/Health 3.0
  - o Pedagogic strategies
  - o Thematic (Medical) areas

- Clustering with standardisation bodies
- Other EU Projects
- Other expressions of interest (interested parties should send an email to the Project Coordinator)

Partners

1	Aristotle University of Thessaloniki *Project Coordinator*	GR		8	Università degli studi di Catania	IT
2	University of Cyprus	CY		9	University of Helsinki	FI
3	Democritus University of Thrace	GR		10	St George's Hospital Medical School	UK
4	MEDTING LTD	IR		11	Succubus Interactive	FR
5	Technical University of Cluj-Napoca	RO		12	The Open University	UK
6	Université Nice Sophia Antipolis	FR		13	Coventry University	UK
7	Medical University Plovdiv	BG		14	European Cervical Cancer Association	FR

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