Distant learning, content and process

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Jarmo Tanskanen

Education

- *MSc -92, Tech. Lic -98, Electrical Engineering, Tampere University of Technology*

- *Pedagogical Qualification -06, Vocational Teacher Education Unit, HAMK University of Applied Sciences*

- *Pedagogy, cum laude -08, University of Tampere*

Thesis

- *Licentiate in Technology, New methods of information technology for teaching and learning, -98*

Experience

- *Lecturer, instructor and research project manager at Tampere University of Technology, 1989-95, 2000-10*

- *Activities and Societies: Member of IEEE, President of Tampere Branch of Finnish Society of Electronics Engineers (1997 - 2000)*

- *Board member, The Association of Finnish eLearning Center*

- *Teacher, Speaker, Coach, Consultant and Promoter of eLearning with social software*

- *CEO, founder, owner, entrepreneur at Valopi Ltd.*

- *Moodle services, consultation, Infosticker - QR mobile code services, audiovisual content design and service*

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Topics

- *Principles of formation of educational content for distance learning*

- *Process analytics and evaluation, and their influence on the optimization of the educational content*

- *Motivation factors in students' participation in the process of distance learning*

Educational content

- *Generally the internet is full of content*

- *Educational content has to be found and decide what is appropriate for the topic*

- *Think about should you do all the content again*

- *The **key success factor is that students should also participate** of doing learning materials and educator will just guide in the learning process.*
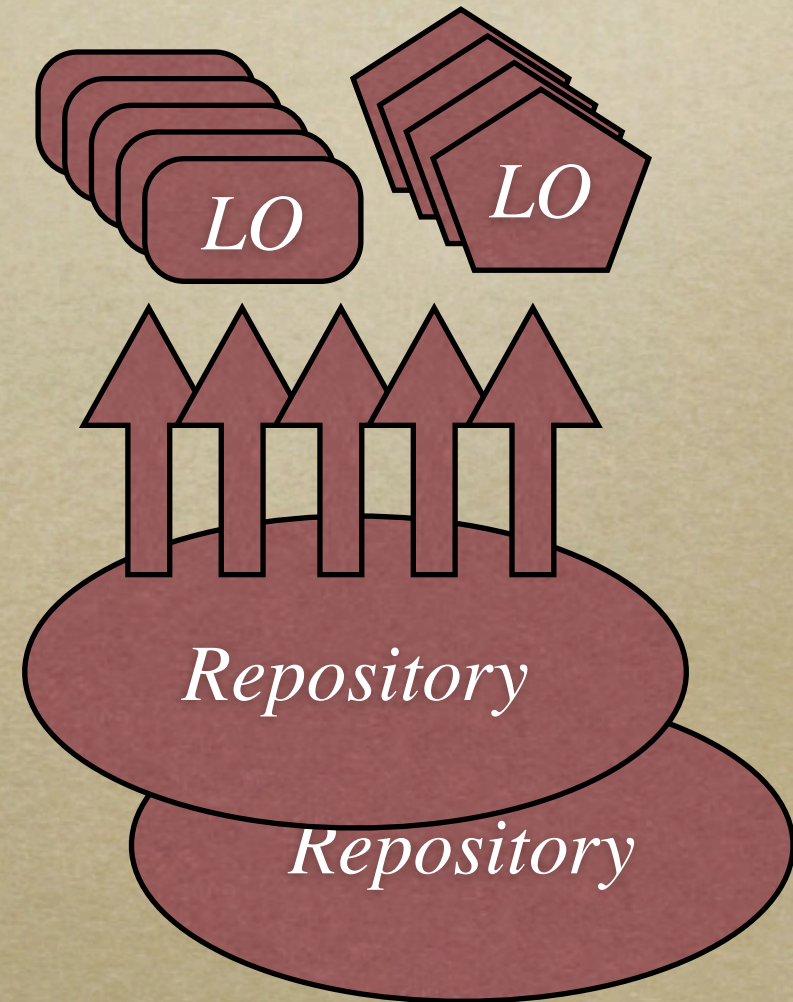
Chunks of knowledge

- *Learning material - divide and conquer*

- *Individual* **learning objects**

  - *including goal, theory, practice and assessment units with metadata*

- *Mostly small, portable, instructional and re-usable objects for self-study*

- *Questions, lecture videos, slideshows etc.*

Use metadata

- *data about data content*
- *is used for management and searching content*
- *description of data content*
  - *Means of creation of the data*
  - *Purpose of the data*
  - *Time and date of creation*
  - *Creator or author of data*
  - *Location on a computer network where the data was created*
  - *Standards used, etc.*

LO

LO

Repository

Repository

The process of content production

1. *Decide what are learning outcomes (goals)*

2. *Answer: what and how? Ideas, brainstorming, mind maps*

3. *Do the pedagogical design, manuscript*

4. *Divide material into small knowledge chunks (modules) including lots of audiovisual elements and exercises*

5. *Use metadata*

Tools for content creation

- *Wiki is collaborative method in where many creators and contributors can create same material together*

- *There are tools for creation of learning objects. Objects can be shared for example in SCORM modules.*

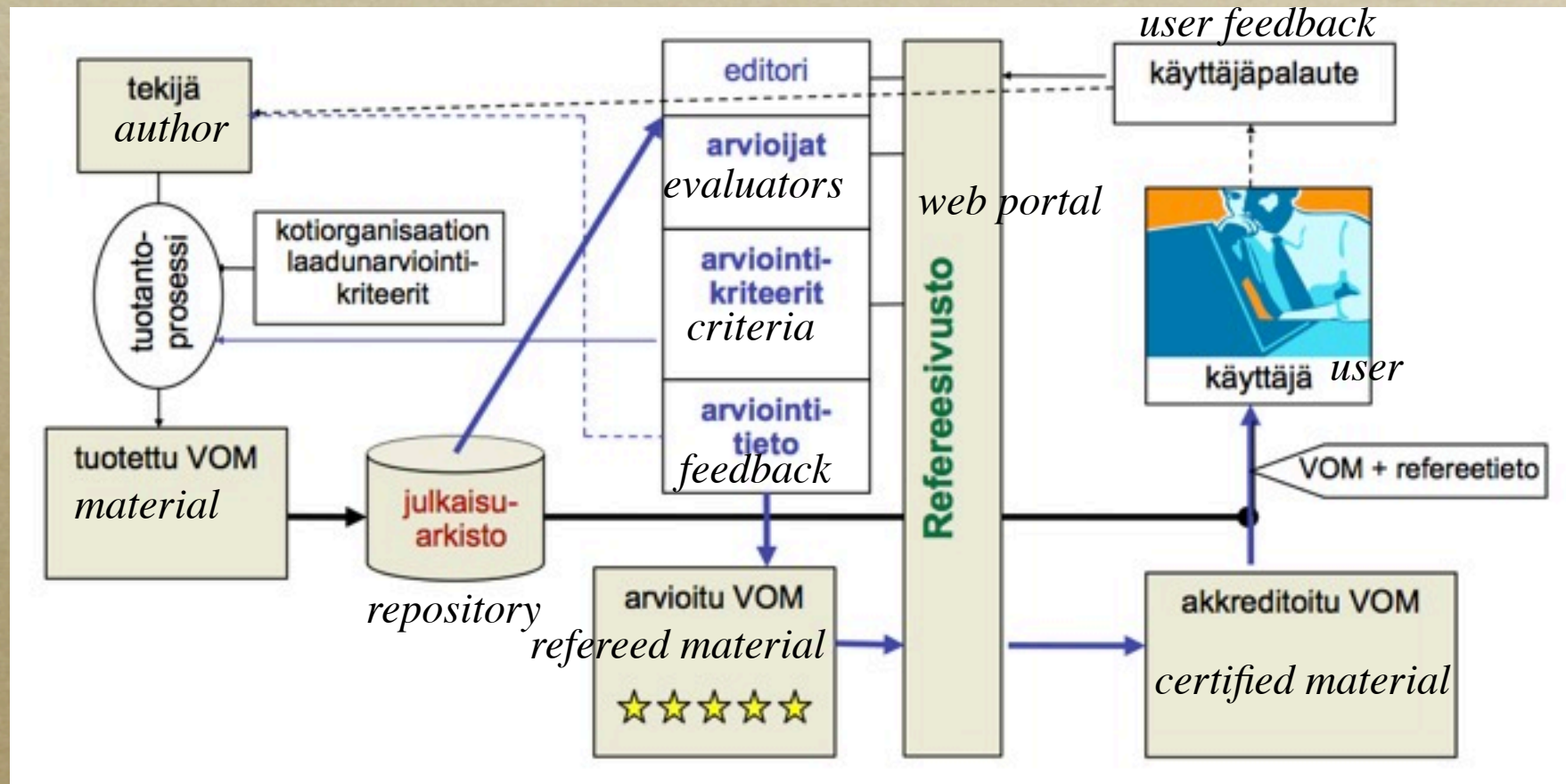- *Moodle in great tool for course management, also moderately suitable for content management*

Content referee process

- *Web based content for learning can be evaluated by experts*

- *There are criterias for pedagogy, common use, context, and technical aspects (developed by Referee-project, 2006)*

- *Improving the content is iterative process*

Visio for Referee-service

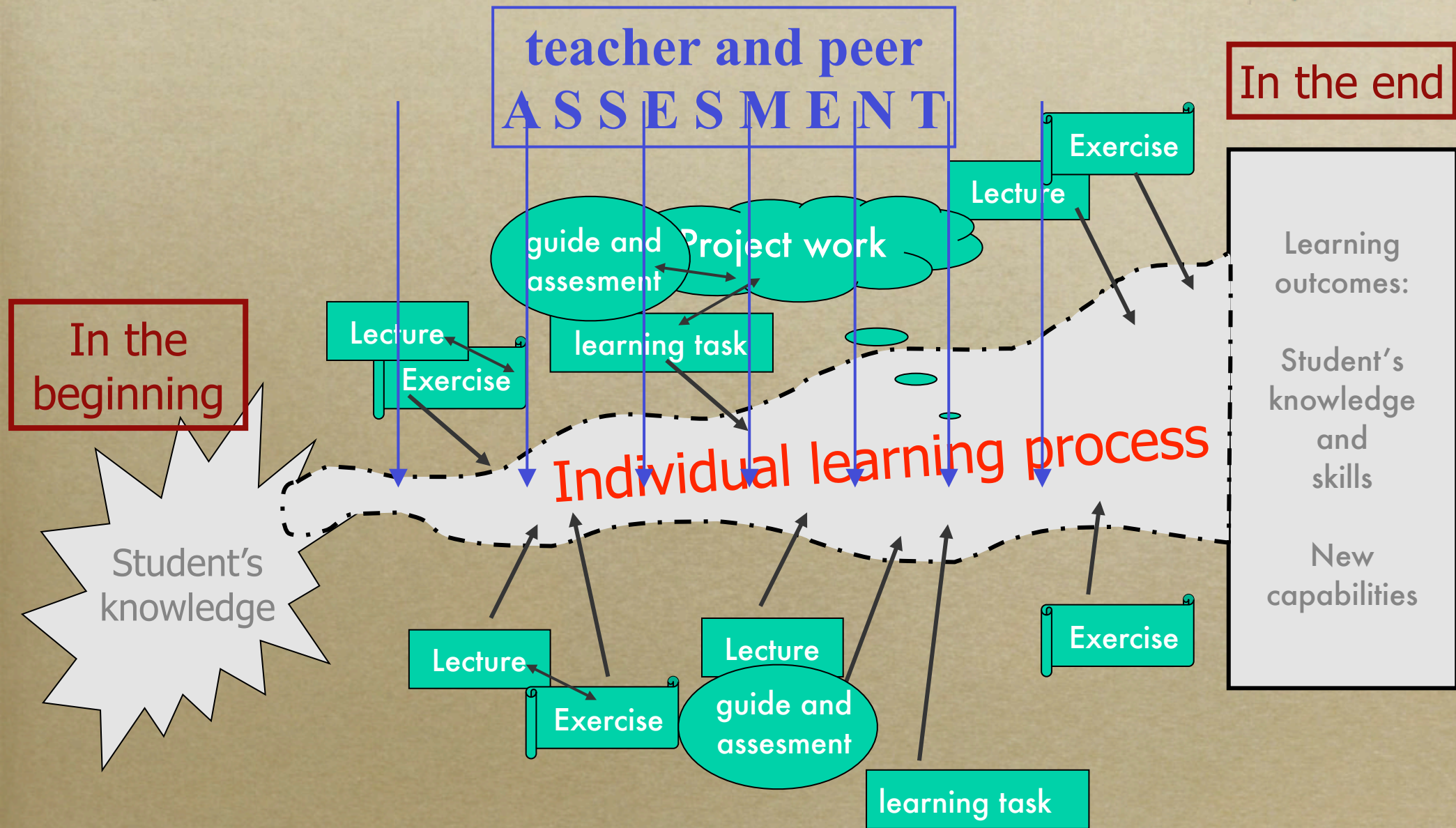
Source: Finnish virtual university

Design of distance learning

- ***The most important thing is to design and decide the goals***

- *In every formal learning process the student is watching the goals. What are expected to do? What I have to do to pass a course? As a student.*

Course process

teacher and peer
ASSESMENT

In the end

In the
beginning

guide and assesment

Project work

Lecture

Exercise

Lecture

Exercise

learning task

Student's
knowledge

Individual learning process

Learning
outcomes:

Student's
knowledge
and
skills

New
capabilities

Lecture

Exercise

Lecture

guide and
assesment

Exercise

learning task

Blended learning, more motivation

- *Many different kind of materials and methods are pedagogically used in the course*

- *Materials: texts, photos, illustrations, sound, animations, videos, simulations*

- *Methods: student activation, wikis, blogs, discussions, exercises via internet*

Tools for distance learning

- *Webinars = web based seminars using communication softwares or services*
  - *all can participate with voice and chat*
  - *educator can show slides and voice can be heard over the network*
- *Students can communicate using chat or discussion forums*
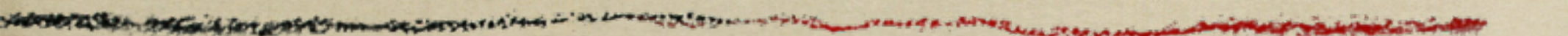- *Moodle can be used also for exercises*

How can I help you?

- *Forming educational material for distance learning, helping your own educators*

- *In the design of web based courses*

- *Evaluation of the quality of the material and education methods*

- *Consultancy for web based education, for example with Moodle*

- *To offer other experts via The association of Finnish eLearning center*

- *Thank you for listening!*

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