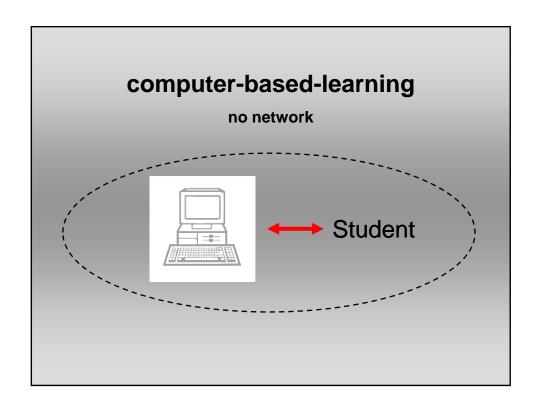
eLearning in Germany and Europe

Current Status and Future Perspectives

Dr. Sven Reese

Faculty of Veterinary Medicine University of Munich, Germany



computer-based-learning

no network

In most cases used in addition to traditional face to face learning

= blended learning

- statistical excercises
- exercises in calculation of diets
- eLearning programms



computer-based-learning no network necessary eLearning programms Cardid Polan Itarry (Pop) Sonos Lerpopamm zur abdominalen Sonografie bei Hund und Katze DYD-Jungske

computer-based-learning

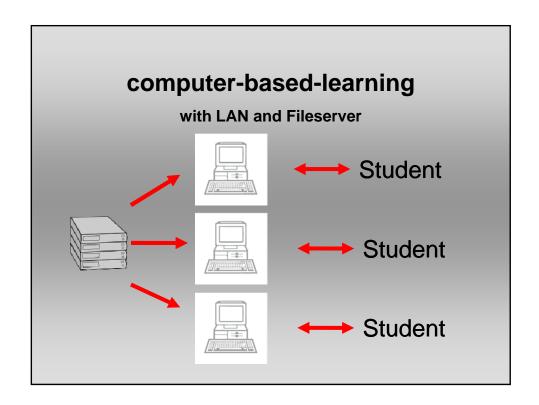
no network necessary

eLearning programms

Created by authoring systems/authoring tools

- Toolbook
- Macromedia Authorware
- Adobe Director
- Mediator

prefere web authoring languages



computer-based-learning

with LAN and Fileserver



Fileserver contains

- text-files (handouts, pdf, ppt)
- multimedia-files (audio, video)
- image-database

usefull in eAssessment

computer-based-learning

with LAN and Fileserver

Client hardware

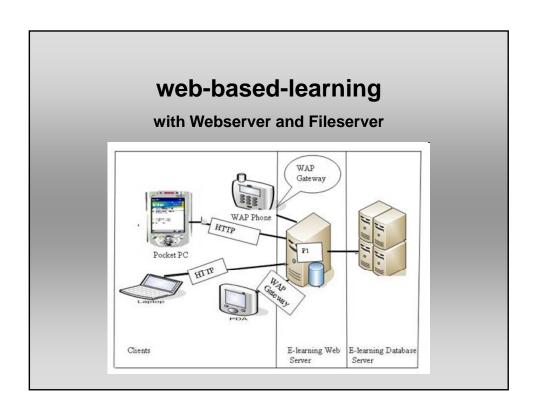
• normal PCs

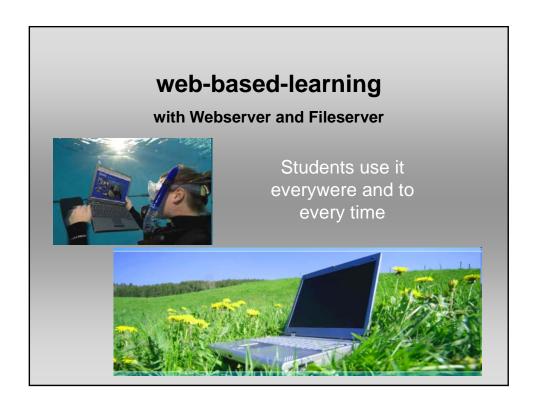
or

- Thin Clients
 - → additional Terminal Server
 - → less hardware defects

 more easy in administration







with Webserver and Fileserver

Most important software on the webserver:

Learning management system (LMS)

web-based-learning

with Webserver and Fileserver

Important functions of the LMS

- Presentation of content
 - Content Management System
 - Authoring tools
- Communication tools
- Exercise and selfassessment-tools
- Evaluation and eAssessment-tools
- Administration-tools

world-wide used learning management systems

- commercial product
 - Blackboard
- Open source software
 - StudIP
 - Ilias
 - Olat
 - Moodle

web-based-learning

learning management systems

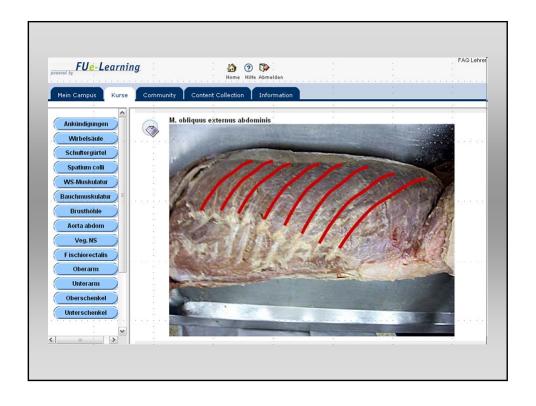


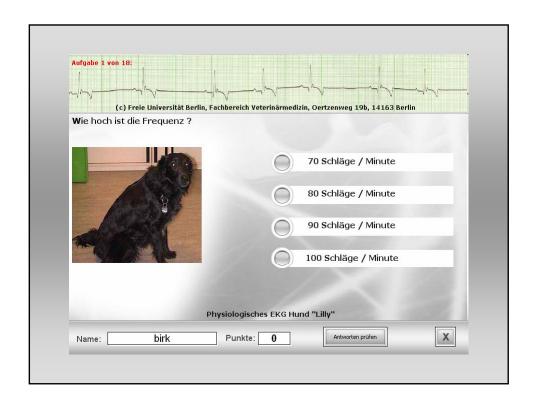
Training of the teachers in using the LMS!!

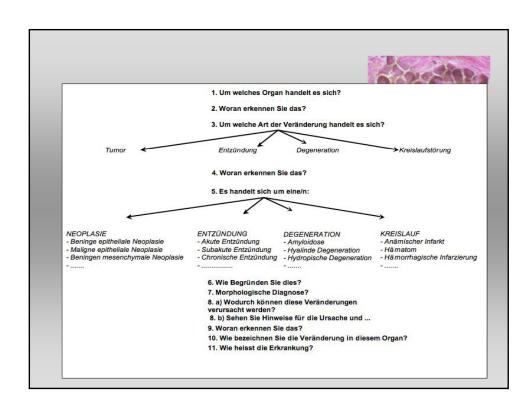
Supervise the upload of content to the LMS!!

benefits of a learning management system

- content is much better to find
- easy to manage content
- easy to integrate special applications
 - virtual microscopy
- import of elearning programms (written in html/xhtml)
- · easy to add exercises and assessment







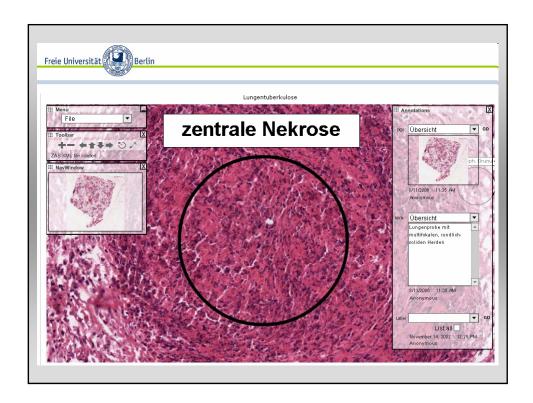
Integration of "CASUS"

"CASUS" is a cased based multimedia training and authoring shell for the education of medical students

www.casus.eu







benefits of a learning management system

 integration of communication techniques

"WEB 2.0"

Email

Forum

Blog

Chat

web-based-learning

Discussion based learning in a "forum"

An Internet forum, or message board, is an online discussion site. It originated as the modern equivalent of a traditional bulletin board, and a technological evolution of the dialup bulletin board system. From a technological standpoint, forums or boards are web applications managing user-generated content.

reflective learning in a "blog"

A **blog** (a contraction of the term "web log") is a type of website, usually maintained by an individual with regular entries of commentary, descriptions of events, or other material such as graphics or video. Entries are commonly displayed in reverse-chronological order. "Blog" can also be used as a verb, meaning to maintain or add content to a blog.

web-based-learning

benefits of a learning management system

 possiblity to integrate a knowlege base

informal learning by using knowlege bases



Students use

Google

Wickipedia

. . .

web-based-learning

collaborative learning by writing a specific knowlege base for veterinary medicine

Projects in Berlin (Vetipedia) and London

benefits of a learning management system

• integration eAssessment

very good experiences with

- eAssessment-tools of Ilias
- Combination of Olat (LSM) and Qant (eAssessment)

web-based-learning

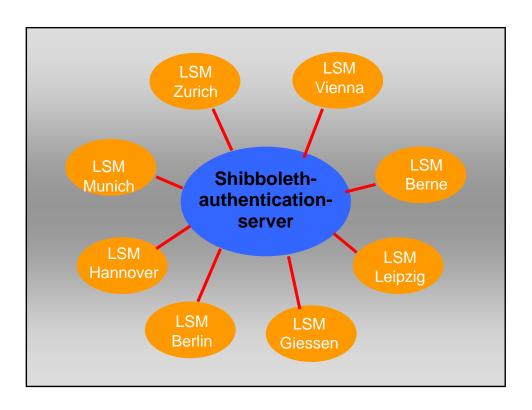
Online-teaching in virtual classrooms

- teacher with webcam and microphon, presentation of powerpoint or multimedia-files
- students are online and are discussing in a chatroom

Problem Cooperation of the different faculties



Connection of the different learning management system via a central authentication system by "single sign on"



Future project

Personal Learning Environments

"Personal Learning Environments are systems that help learners take control of and manage their own learning. This includes providing support for learners to set their own learning goals manage their learning; managing both content and process communicate with others in the process of learning and thereby achieve learning goals

Future project

Personal Learning Environments

- → better life-long-learning
- integration of
 - LMS of the Universities
 - LMS of Veterinary Societies
 - LMS of European colleges
 - social networks (Facebook, StudiVZ)

