

E-Learning Strategy at ETH

SVC - Meeting Bern

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E-learning Strategy at ETHZ ?

- no formal top-down strategy
- e.g. no indicators on percentage of infiltration of teaching by ICT

nevertheless...



General Strategy 2004 - 2007

- excellence in teaching
- applying state-of-the art technologies in teaching
- continuous increase of ICT in teaching

thus...



Bottom-Up Strategy of ETHZ

- concentration on teachers who are willing to try innovations
- preparing stimulating grounds for e-learning:
 - providing support (pedagogical)
 - providing support (technical)
 - resources to build high-tech-auditoriums
 - financial resources for projects (Filep, ETH World)
 - Project “Neptun”
 - WLAN



Impact of E-Learning (3 Years)

- sobering-up phase:
- e-learning is no better than conventional learning
- effective e-learning requires enormous input of resources
- comeback of excellent teachers who do not use ICT to teach



Impact of E-Learning (5 Years)

- computer illiteracy will be eradicated
- students' skills of data searching will increase
- students will no longer - or much less - ask for "the ultimate truth" (due to contradictory information on the web)
- students will have better analytic capabilities
- students will do more learning in groups (virtual as well as real)
- adequate multimedia use in e-learning

Impact of E-Learning (10 Years)

- skills will be trained in virtual worlds (surgery, electron microscopy, architecture, civil engineering)
- whenever possible, learning will occur in real situations
- e-learning will dominate
 - in case of a dangerous situations
 - expensive apparatus would be necessary
 - unavailable access to equipment



Impact (10 Years, continued)

- simulation of face-to-face communication in a virtual world to train specific capabilities (e.g. learning a language in a virtual town)

Examples of Good E-Learning

- mainly low budget projects
 - devoid of much technique
 - student centered
 - ask for student action
- Stambach: Analysis mit WebCT
- Hinterberger: Anwendungsführer

www.ethonline.ethz.ch



Bad Examples

- are there any?
- sure, lots :-)
- [REDACTED] in..
- [REDACTED].
- [REDACTED] h...



Characteristics of Bad Examples

- „shovel ware“ or „electronic page turners“ (script on web... to be printed out individually)
- little or no didactic concept
- useless animations that do not support learning process
- no added value compared to textbook
- illogical navigation
- do what can be done technically