



E-Learning in Higher Education

Overview and case study Freie Universität Berlin

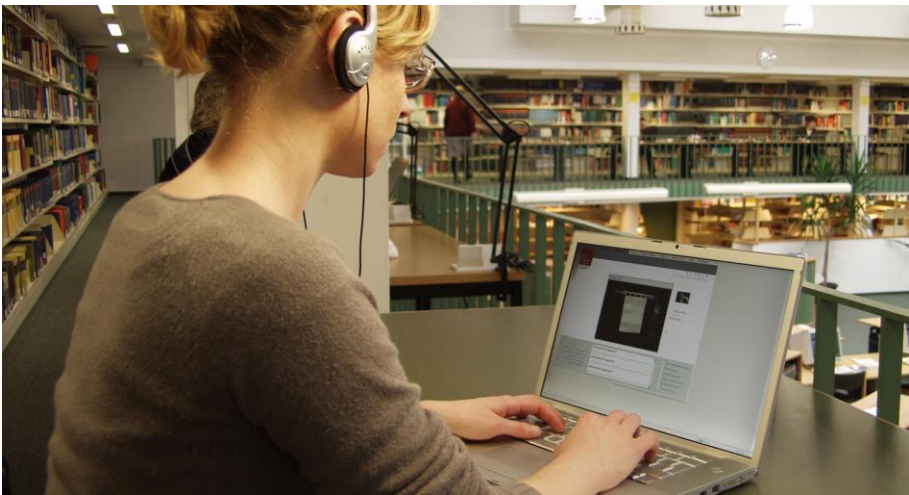
Overview

1. E-Learning in Higher Education
2. E-Learning at Freie Universität Berlin (FUB): Strategy and infrastructure
3. Blended Learning at FUB: Good Practice
4. Summary

1.

E-Learning in Higher Education

Learning in Higher Education



E-Learning: Some definitions ...

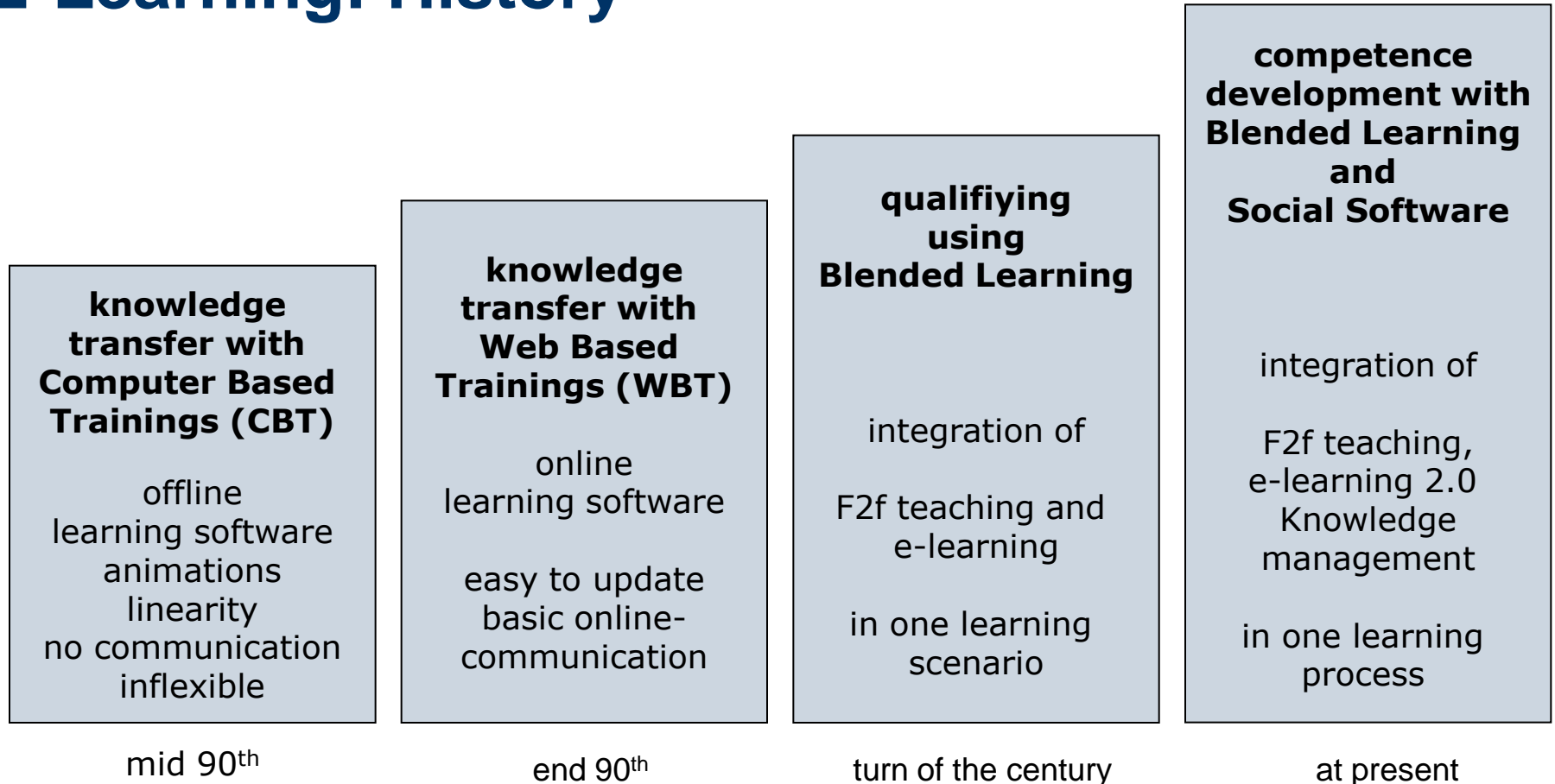
„E-Learning is defined as all forms of electronic supported learning and teaching.“

wikipedia.org

„e-Learning can be defined as 'learning facilitated and supported through the use of information and communications technology'. It can cover a spectrum of activities from the use of technology to support learning as part of a 'blended' approach (a combination of traditional and e-learning approaches), to learning that is delivered entirely online. Whatever the technology, however, learning is the vital element.“

JISC e-learning definition from <http://www.jisc.ac.uk/elearning>

E-Learning: History



Erpenbeck, J., Sauter, W. Kompetenzentwicklung im Netz. Luchterhand, 2007, p146

E-Learning: Blended Learning

„A method of delivering teaching and learning that involves both face-to-face teaching and the use of technology together at the same time.“

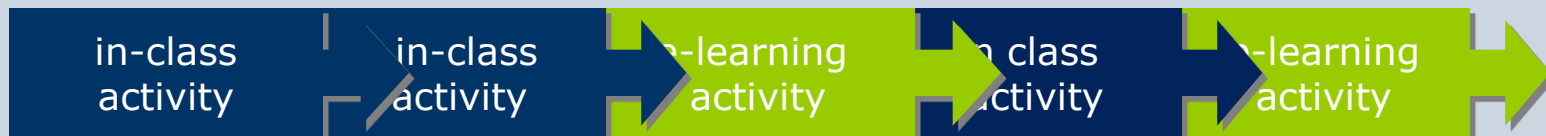
<http://www.jiscdigitalmedia.ac.uk/crossmedia/advice/introduction-to-elearning>

Blended Learning course

Week 1



Week 2



Week 3

...

E-Learning: E-Learning 2.0

„E-Learning 2.0 is based on tools that combine ease of content creation, web delivery, and integrated collaboration.“

http://www.astd.org/lc/2007/0707_karrer.htm

„E-Learning 2.0 refers to a second phase of e-learning based on Web 2.0 and emerging trends in e-learning technology.“

<http://www.learningcircuits.org/2007/0707karrer.html>

E-Learning in HE: Current Trends

e-learning scenarios

- Blended Learning: combining face-to-face instruction and computer-mediated instruction
- a growing number of universities offer a select set of academic degree and certificate programmes via the internet at a wide range of levels and in different disciplines

e-learning technologies

- most universities have some kind of LMS
- E-Learning 2.0: using web 2.0 applications in educational settings
- computer-delivered lectures as a service
- some educational institutions are present in Second Life
- open courseware, open educational resources
- mobile learning

Models of Blended Learning in HEI

Enhancement

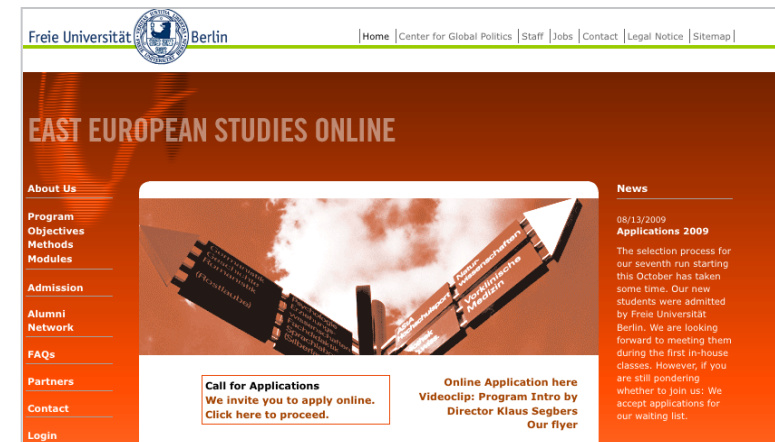
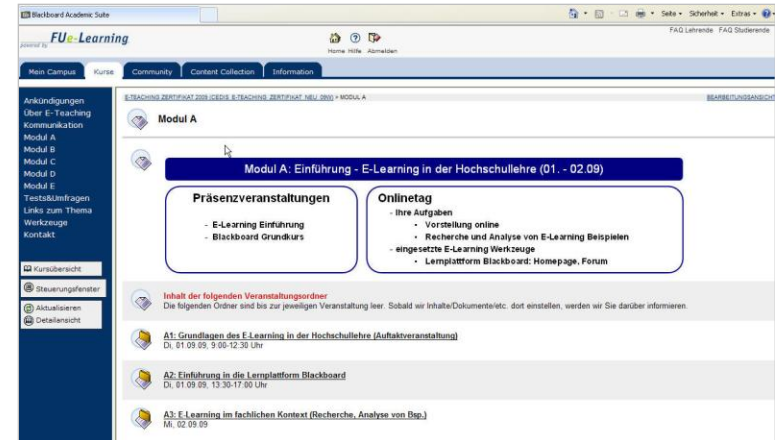
- distributing information
- delivering (multimedia) content
- including tests and surveys

Integration

- e-learning elements and in-class teaching have specific tasks
- classroom- and online-instruction are interrelated

Virtual learning

- mostly online distance learning with a few in-house workshops



Bachmann et al. 2002

E-Learning Technologies

„traditional“ tools

Learning Management System (LMS)

- e-content
- forum, chat, groups, ...
- quizzes, survey, ...

for distributing and exchanging material and for communication (e-learning 1.0)



social software

- wiki
- blog
- podcast
- ...

for collaboration, content creation and
networking (e-learning 2.0)



E-Learning: Tools, Tools, Tools ...



<http://c4lpt.co.uk/top-100-tools-for-learning-2011/>

E-Learning Technologies: LMS

A learning management system (LMS) is a programme that supports web-based teaching and learning. Using an LMS, one can easily deliver, manage and track online-courses.

Major features of an LMS

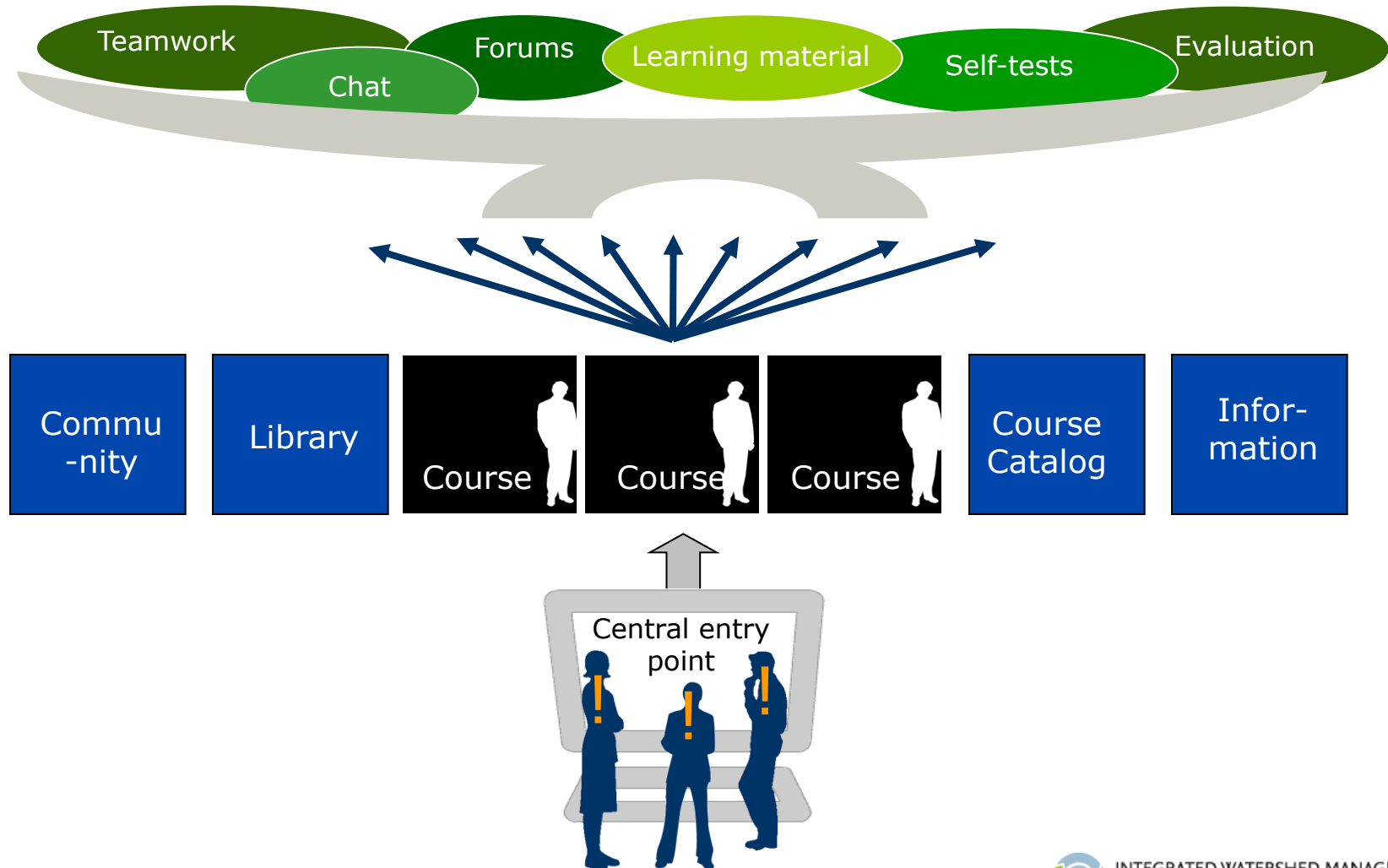
- delivering and presenting learning content
- synchronous and asynchronous online-communication and collaboration
- online tests and surveys
- managing learners, learning content and courses




OLAT - Online Learning And Training
The Open Source Learning Management System



E-Learning Technologies: LMS



LMS Blackboard



Freie Universität Berlin

Home | Kontakt | Impressum

Blackboard
das Learning Management System der Freien Universität Berlin

- Login Blackboard
- Ankündigungen
- Semesterstatistiken
- Browsercheck
- Selbstregistrierung
- Support

ALLGEMEIN STUDIERENDE LEHRENDE

Haben Sie schon einen Account? Melden Sie sich hier an.

Geben Sie hier Ihre Anmeldeinformationen ein und klicken Sie auf **Anmelden**.

Benutzername:

Kennwort:

Kennwort vergessen?


Verfügbare Sprachen / Available Languages

Vorschau Gäste / Preview Guests

Sie haben noch **keinen Zugang** zum Learning Management System?
Nutzen Sie bitte die Selbstregistrierung. Weitere Informationen erhalten Sie hier.

zur Webseite des Learning Management Systems der Charité - Universitätsmedizin Berlin

in Kooperation mit



CHARITÉ
UNIVERSITÄTSMEDIZIN BERLIN

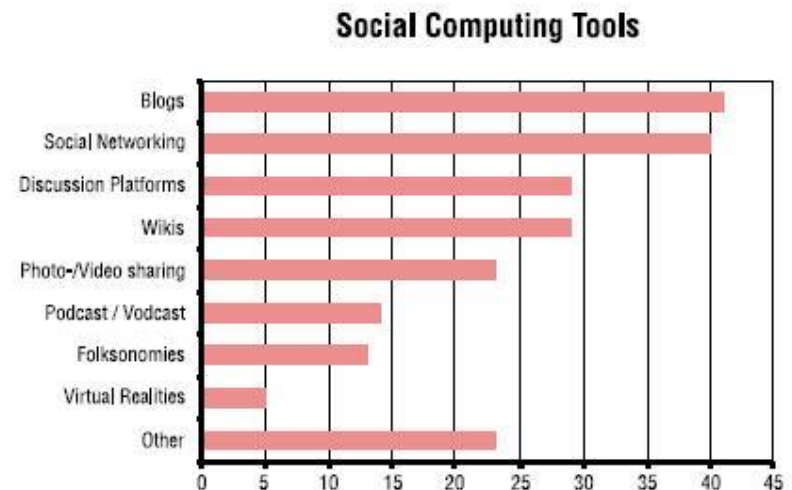
© 2010 Freie Universität Berlin, Center für Digitale Systeme (CeDis) | Feedback | 15.04.2010

<http://lms.fu-berlin.de>

E-Learning Tools: Using Web 2.0

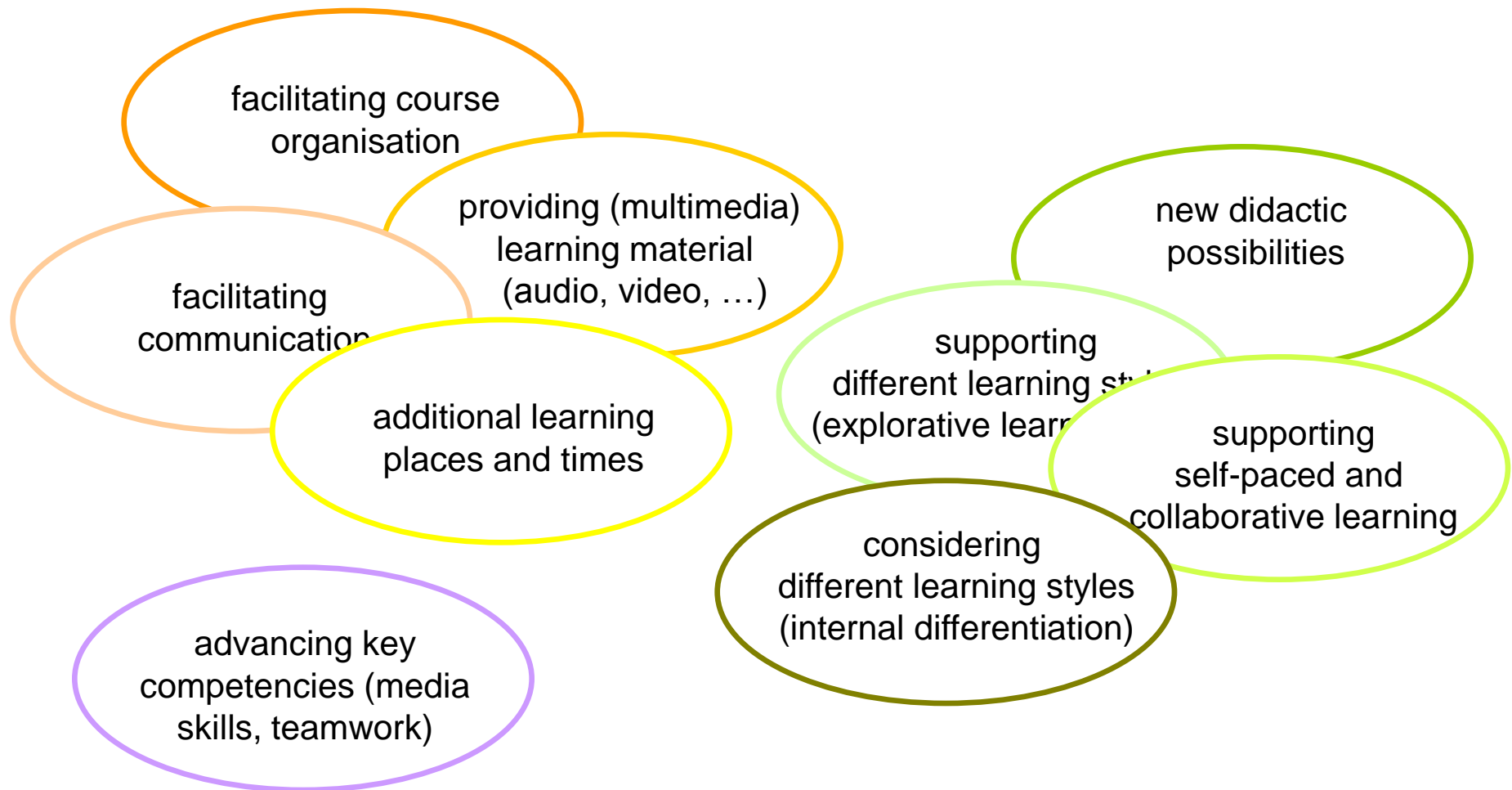
Figure 3-4: Usage of Social Computing Tools for Learning 2.0 (in % of cases)

Tools	N	% Cases	% Entries
Blogs	97	41	19
Social Networking	95	40	18
Discussion Platforms	69	29	13
Wikis	68	29	13
Photo- / Video sharing	5	23	11
Podcast / Vodcast	34	14	7
Folksonomies / Tagging	30	13	6
Virtual Realities	11	5	2
Others (e-Portfolios, Twitter, Ning, Moodle, Elgg, games etc)	55	23	11
53% combine different social computing tools.			

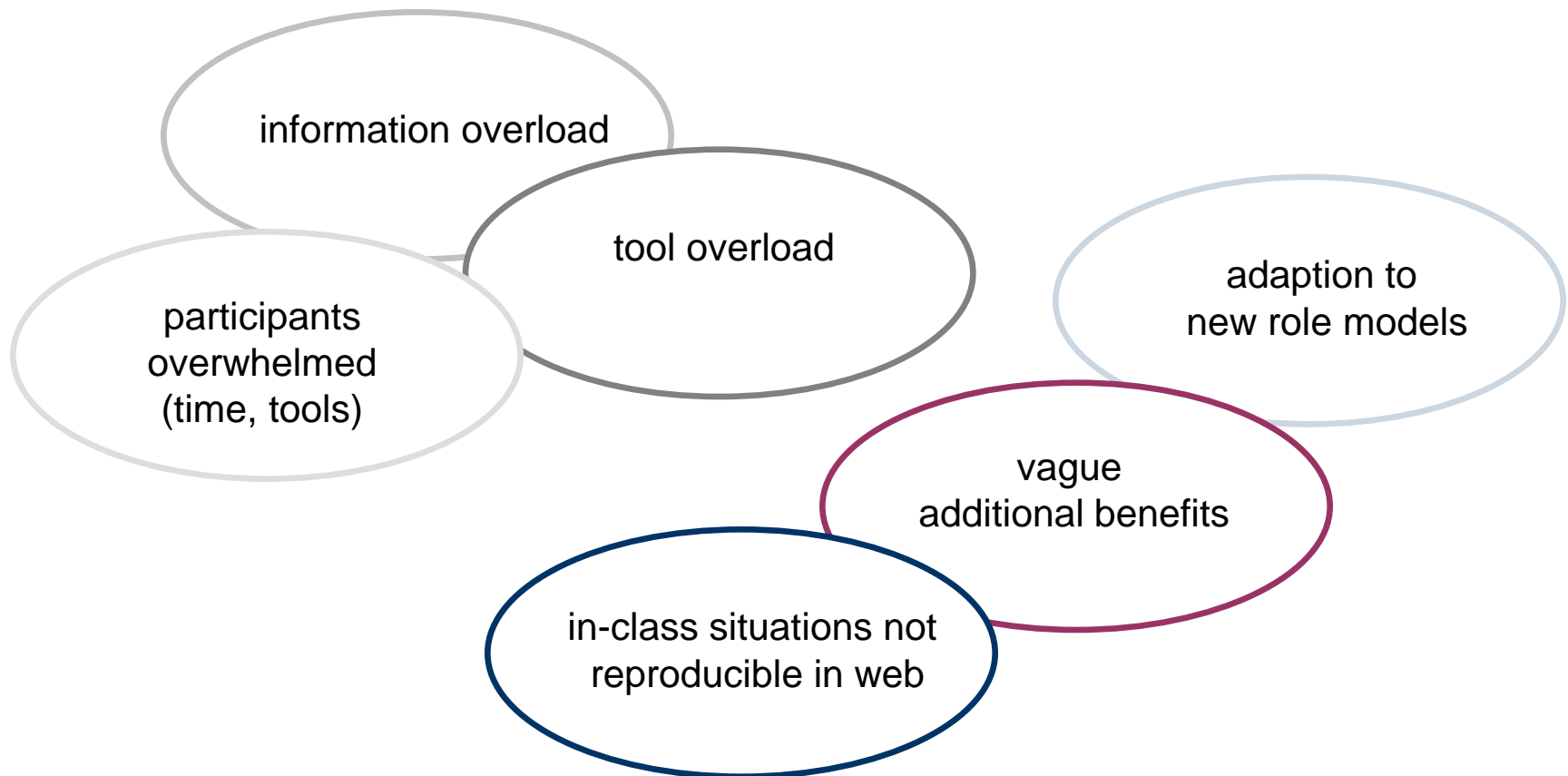


Quelle: C. Redecker et al., 2009

Why E-Learning? – Potentials ...



Why E-Learning? - ... and Risks



2.

E-Learning at FUB: Strategy & infrastructure

Freie Universität Berlin



FU facts and figures*

- 34,000 students, 60% women, 16% international
- 400 professors
- 1,700 academic staff, 40% research funded
- 2,200 additional staff
- 12 departments, including the Charité
- state budget: 290 million Euros p.a.
- third-party funding: 60 million Euros p.a.
- „Excellence Initiative“: 150 M€ (for five years)



* Figures exclude human medicine (Charité)

E-Learning at FUB: Overview (1)

mid 90s: e-learning at Freie Universität Berlin

- e-content: learning modules, interactive learning environments
- e-learning center: CeDiS
- steering committee e-learning

2003: introducing central LMS “Blackboard”

- e-learning grants

2005: FU e-learning project (FUeL)

- e-learning integration (Blended learning)
- e-learning strategy
- expanding and establishing e-learning infrastructure (LMS, Web 2.0, e-examinations)

E-Learning at FUB: Overview (2)

2007: Multimedia archives

- Visual History Archive, Shoah Foundation <http://www.vha.fu-berlin.de/en/index.html>
- Forced Labour 1939-1945 <http://www.zwangsarbeit-archiv.de/en/index.html>
- ...

Present

- e-examination center
- mobile learning
- large project on improving the quality of teaching

Establishing E-Learning in HE

e-learning
strategy

technical
infrastructure

legal
aspects

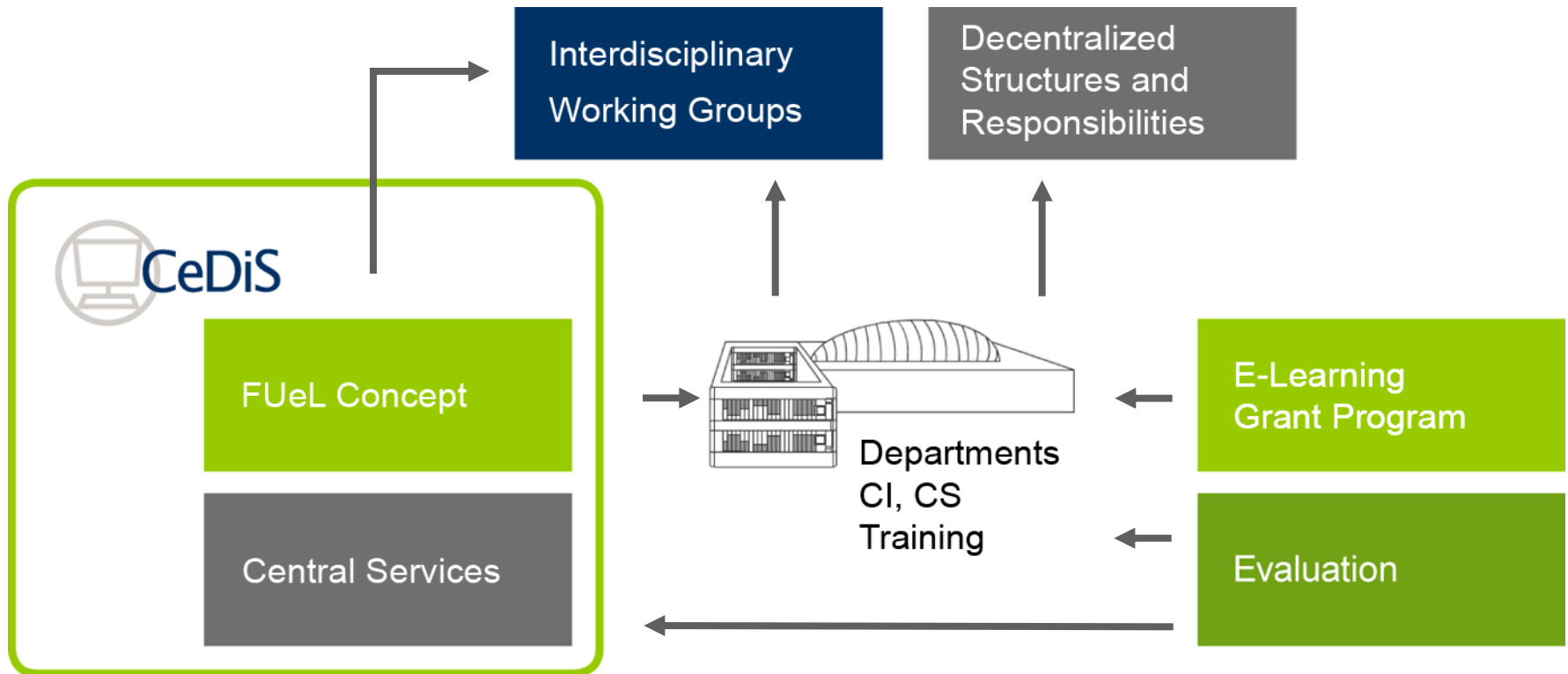
E-Learning in Higher Education Institutions

financial
resources

skilled
lecturers

pedagogical
issues

E-Learning at FUB: Strategy



CeDiS: E-Learning, E-Research, Multimedia

fuel&friends

Wikis!

an der Freien Universität

Blogs!

an der Freien Universität

Web 2.0

e.knowNet  e-exam

Projects / Cooperations

dc
distributedcampus

CHARITÉ

ZWANGSARBEIT
1939 - 1945
ERINNERUNGEN UND GESCHICHTE

Visual History Archive

Digital Archives

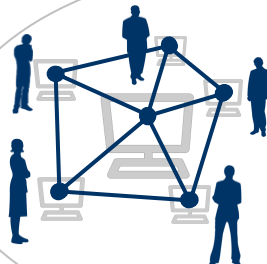
e-Publishing
Open Access



FUe

e-Learning at Freie
Universität Berlin

Media & Design



Learning
Management
System
LMS



Content
Management
System
CMS

<http://www.cedis.fu-berlin.de>

CeDiS: E-Learning Services

Consulting

- faculty and teaching staff
- strategic cooperation with deans
- implementation of e-learning strategy



E-Learning Technology

- training and consulting
- software operation
- Hotline (phone, e-mail)

Blackboard
das Learning Management System
der Freien Universität Berlin

Wikis!
an der Freien Universität

Training

- e-learning technologies
- content production
- pedagogical issues



E-Examinations

- technical infrastructure
- support in implementation

E-Learning Grants Programme

- administration
- consulting and support

powered by **FUe-Learning**

Authoring software

- training and consulting
- rapid e-learning



Evaluation

- improving quality of e-learning
- online surveys
- university wide student surveys

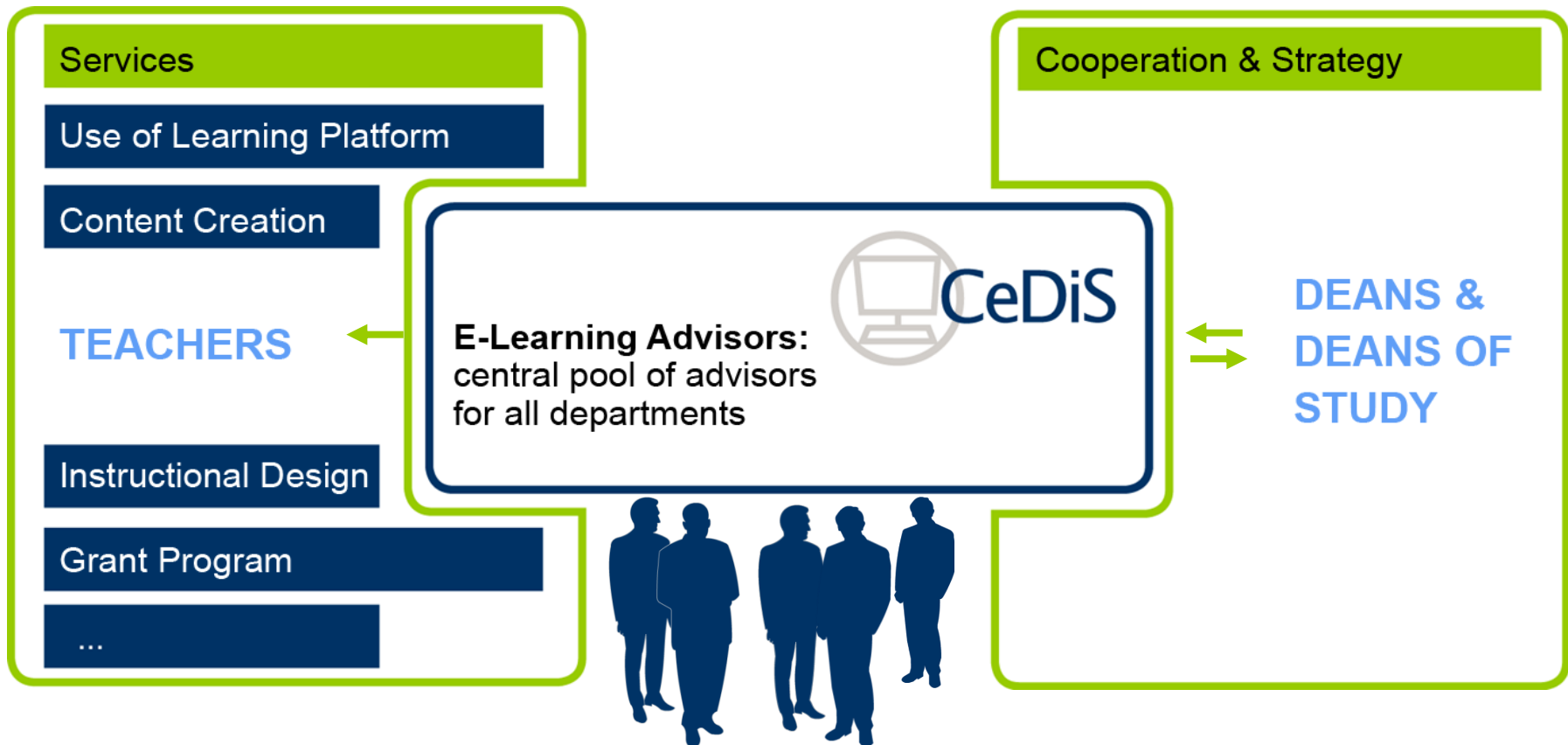


Legal issues

- FAQs, leaflets
- trainings
- legal advice (ind.)



E-Learning Services: Consulting



E-Learning Services: Training

Trainings on
E-Learning and Web 2.0 in educational contexts

university teachers
and lecturers

students at Freie
University Berlin

trainers and teachers
in other educational
contexts

More on www.e-learning.fu-berlin.de/schulungen/

E-Learning Services: Grants



Teaching staff
applies



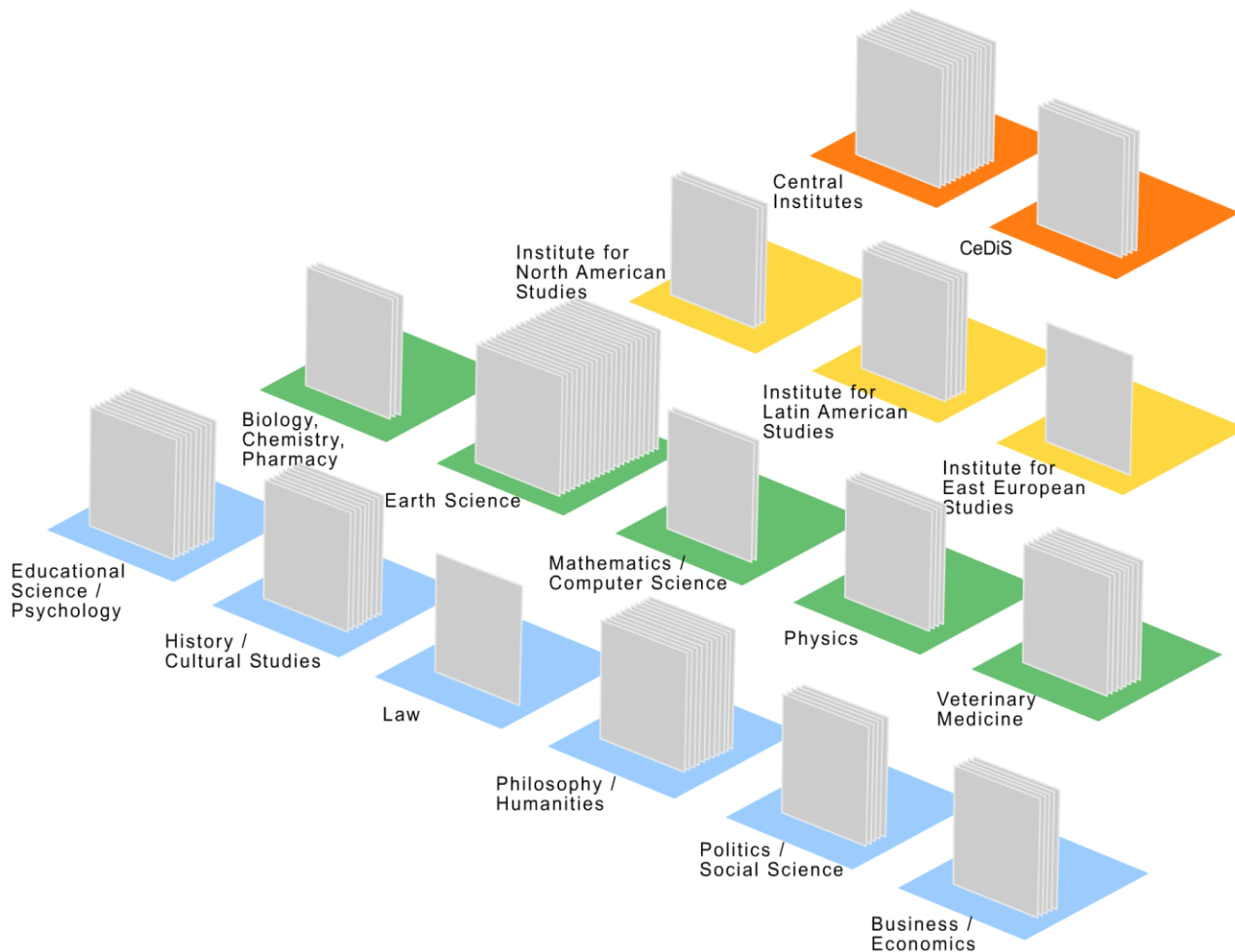
CeDiS
recommends



Steering Committee
E-Learning
decides +/-

E-Learning projects grow

E-Learning Services: Grants

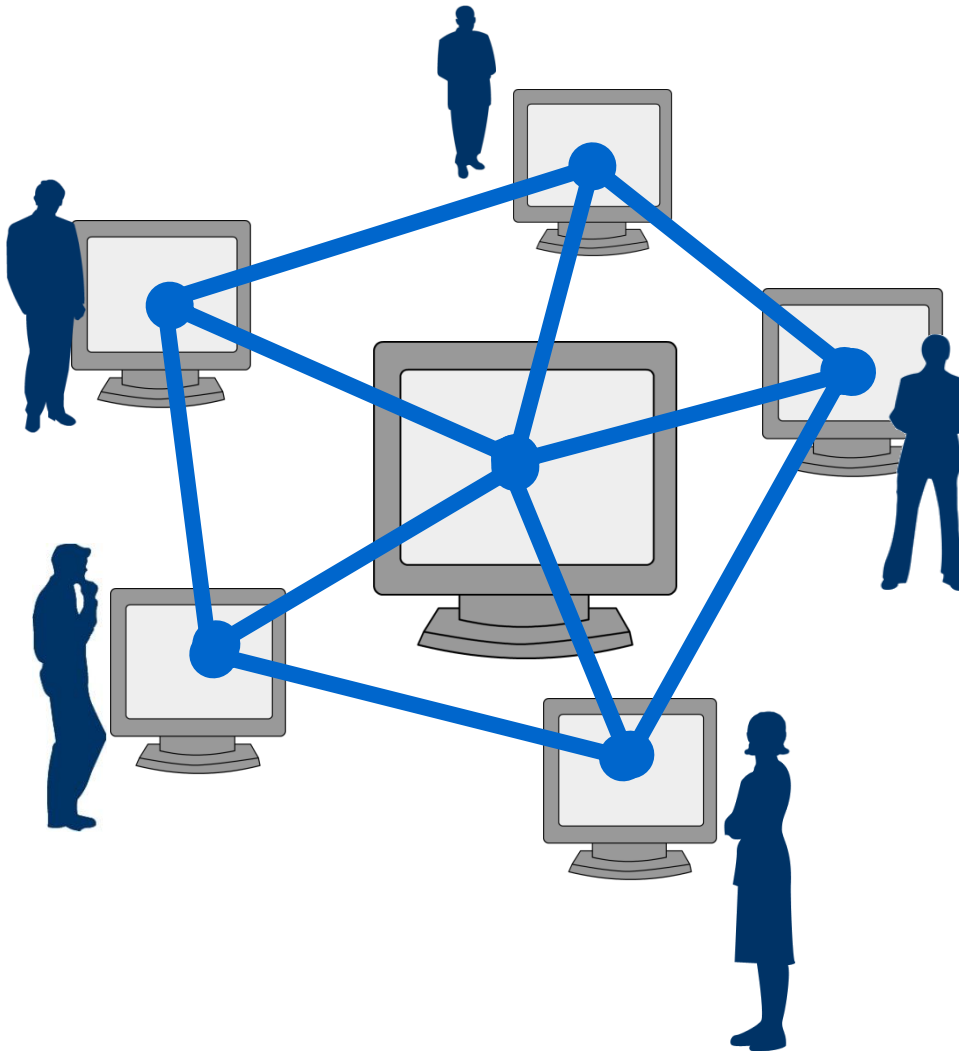


E-Learning Services: Technology

B l a c k b o a r d
das **L**earning **M**anagement **S**ystem
der Freien Universität Berlin

Wikis!
an der Freien Universität

Blogs!
an der Freien Universität



Experience in

- operation of e-learning applications
- hosting for other institutions/universities
- support
- training

3.

Blended Learning at FUB Good Practice

E-Learning: Current state

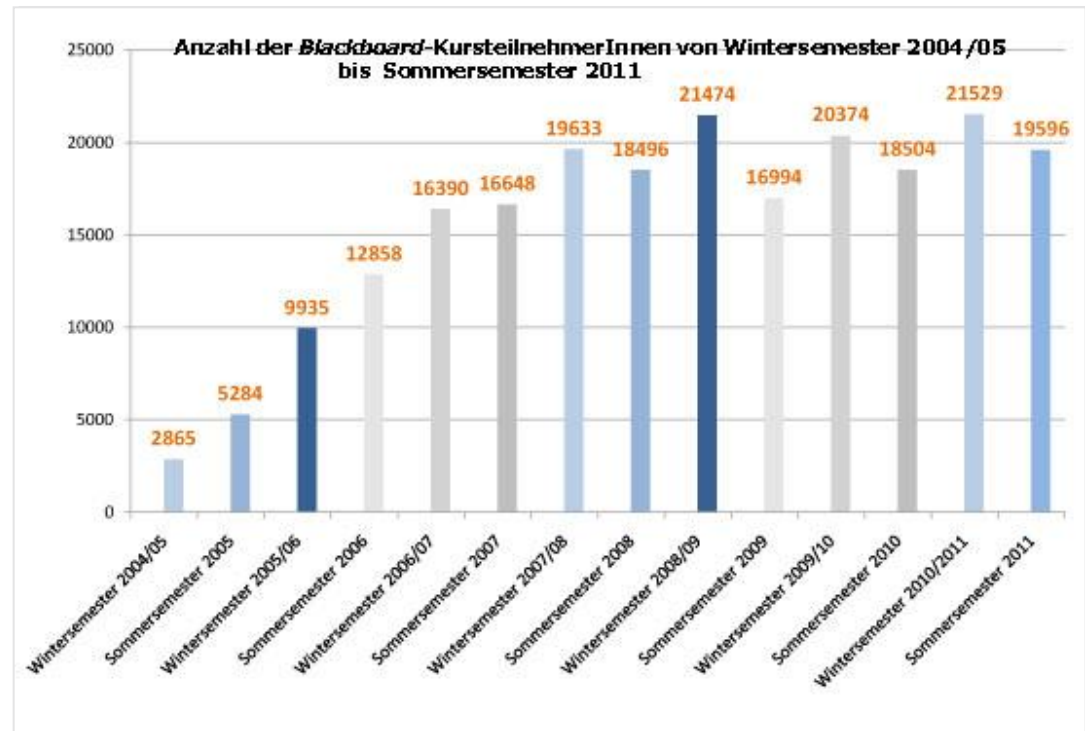
Blackboard Learn 9.1

since 2004

Blackboard use in summer 2011

- ~1950 course
- ~19.600 (from 34.000) students

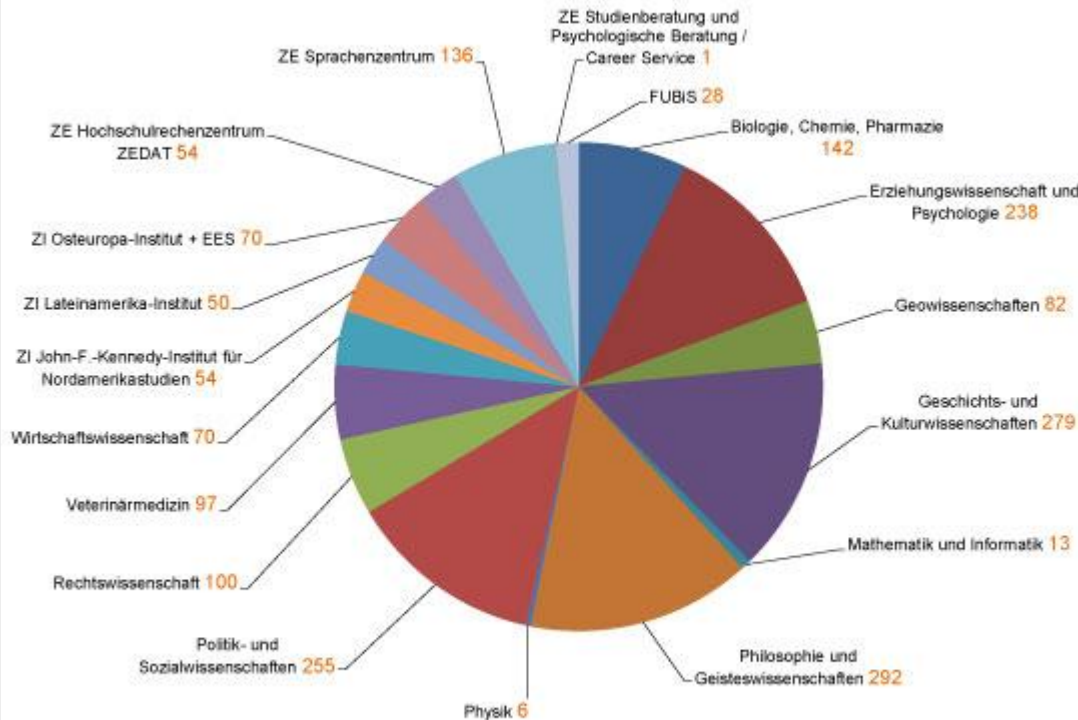
Blended Learning, enhancing in-class teaching



More on E-Learning at FU: www.e-learning.fu-berlin.de

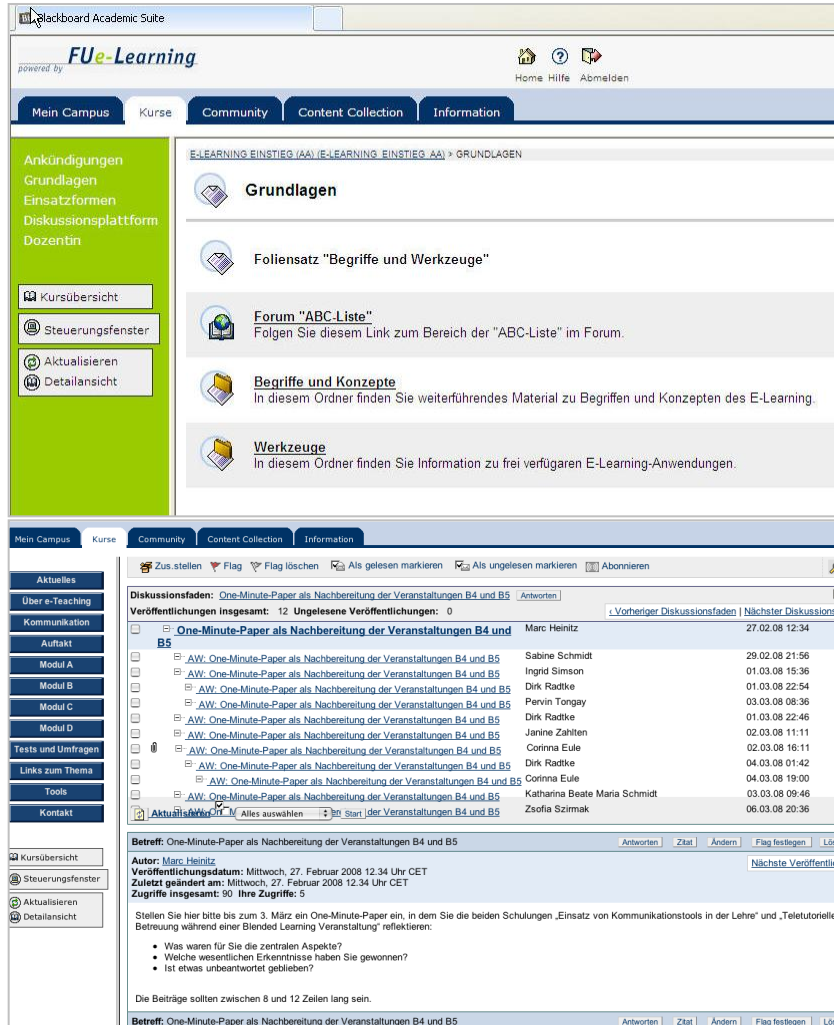
E-Learning: Current state

Anzahl der *Blackboard*-Kurse im Sommersemester 2011 pro Einrichtung der Freien Universität Berlin



Blended Learning is a model of teaching that involves a pedagogically sound combination of in-class teaching and online-learning based on up to date ICT.

Good Practice: Using Blackboard



Distributing learning material

- course material, additional reading
- multimedia e-content (slides, links, pdf, podcasts, videos, ...)
- assignments (forum, worksheets, ...)
- store students' results (forum, wiki)

Communication & Collaboration

- discussing topics, exchanging ideas, working together (forum, email, wiki)

Tests & Surveys

- course evaluation (survey)
- self assessment (tests)

Managing the course

Good Practice: Using Blackboard



ERZPSY-MA-ENMCR-09W European Master in Childhood Studies and Children's Rights (Sommer 10)

Announcements

ERZPSY-MA-ENMCR-09W (European Master in Childhood Studies and Children's Rights (Sommer 10))

Announcements

Overview/Books

Modules

Study at Partner Universities

Contacts

Communication

Links

Tools

Info development EMCR

Student papers/articles

HelpDesk

Announcements

Content of the E-Tutorial Second Block

Course Link/[Modules/Module 1: Childhood Studies and Children's Rights/Online e-Tutorial/E-Tutorial Second Block 5-23.2.2010](#)

E-Tutorial Second Block 5.-23.02.

Dear All,

The second block of the e-tutorial discussion forum will be opened on Friday, February 5 and will remain opened until February 23. A e-mail has been sent out to all student users of this course with information from the moderator Waltraut Kerber-Ganse.

Freie Universität  Berlin

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EAST EUROPEAN STUDIES ONLINE

About Us

Program

Objectives

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Modules

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Alumni

Network

FAQs

Partners

Contact

News

08/13/2009

Applications 2009

The selection process for our seventh run starting this October has taken some time. Our new students were admitted by Freie Universität Berlin. We are looking forward to meeting them during the first in-house classes. However, if you are still pondering whether to join us: We accept applications for our waiting list.

Call for Applications

We invite you to apply online. Click here to proceed.

Online Application here

Videoclip: Program Intro by Director Klaus Segbers

Our flyer

International Master programmes

European Master in Childhood Studies and Children's Rights

„A blended delivery of elearning and face to face contact is an integral part of the European MA in Children's Rights.“

European Studies online

Good Practice: Online-Tests

Blackboardkurs

[Spracherwerb](#)
[Neugriechisch](#)

Prof.
Pechlivanos
Dept. of
Humanities

Ασκήσεις επιπέδου B1
Ασκήσεις επιπέδου B2
Ασκήσεις επιπέδου C1
Ειδικά θέματα ελληνικών
Γραμματική
Το πλάνο της ενέργειας (Α
Διαφορές Αορίστου και Πρ
Σύνθετα ρήματα με εσωτερ
Επιρρηματικές καταλήξεις
Συσχετικές αντωνυμίες και
Κανόνες, καμία, κανένα
Ποικίλες χρήσεις των προ
Ποικίλες χρήσεις των μορ
Υποθετικοί λόγοι

Εργασία
On-line μθήματα
Dialang
Λεξικά
Μορφολογικό Λεξικό
Αξιολόγηση
Μαθησιακή πρόοδος
Επικοινωνία


KURSVERWALTUNG

Steuerungsfenster
Content Collection
Kurs-Tools
Benutzer und Gruppen
Anpassung
Pakete und Dienstprogr
Hilfe

Status des Tests/Anboteten Tests

Frage 6

Βάλε τις φράσεις στη σωστή τους θέση.



1. ΠΟΥ ΗΣΟΥΝΑ;... ΠΟΣΕΣ ΦΟΡΕΣ ΣΟΥ ΕΧΕ ΠΕΙ ΜΙΑ ΜΗΛ ΑΠΟΜΑΚΡΥΝΕΣΑΙ;

2.

3.

4.

5.

6.

7.

8.

Απκ'ς

Γιατί;
Και μετά, μόλις βγήκε από τη θάλασσα, τον πιάσε ένα αυτοκίνητο!

Άσε τις εξητάδες! Είναι επικίνδυνο να κυκλοφορείς μόνος σου στην πόλη!
Σου έχω διηγηθεί, τι έπαθε ο Ίκαρος, που δεν άκουγε τον πατέρα του τον Δαίδαλο;
Όχι! Τι;
Ανέβηκε ψηλά και του έκαψε ο ήλιος τα φτερά κι έτσι δεν μπορούσε να πετάξει κι έπεσε στη θάλασσα και πνίγηκε!

Frage 4 von 7

10 Punkte Antwort speichern


του πρέπει να σημειώσεις είναι τρεις (3).

Good Practice: Collaboration


User generated content


[SandWiki](#)

Dept. of Earth Sciences

Freie Universität  Berlin

Übersicht > GEOWISS SandWiki > ... > 0001 Beach, Mexico

WIKIS DER FREIEN UNIVERSITÄT BERLIN 

Verlauf | Login | 

Blättern

- Seiten
- Stichwörter
- Anhänge
- Lesezeichen
- Nachrichten



Navigation

- Introduction - English
- Database
 - 0001 Beach, Mexico
 - 0002 Beach, Oregon, US
 - 0003 Beach, Mexico
 - 0006 Arkose, USA
 - 0008 Granite, South Afr
 - 0009 Eolian Dune, USA
 - 0010 Ooids, Bahamas
 - 0013 Beach, Hawaii
 - 0015 Eolian Dune, USA
 - 0016 Ooids, USA
 - 0017 Carbonate Beach Sand, Mexico
 - 0018 Beach, South Afric
 - 0019 Carbonate Sand, Australia
 - 0020 Garnet Beach, California, USA
 - 0024 Beach, Hawaii
 - 0025 Glauconite Sand, Chile

Ansicht **Kommentare**

0001 Beach, Mexico

Beach Sand, Baja California, Bahia Concepción, Mexico






View of Bahia Concepcion Macro

Location:	Bahia Concepción (Baja California, Mexico), peninsula shoreline facing the Gulf of California
Depositional facies:	Beach
Provenance:	Shallow marine, temperate climate
Composition:	Coralline and red algae, little coral detritus, fragments of gastropods
Texture:	angular, moderately sorted

Petrographic thin section:

Description:	Coralline algae, red algae
---------------------	----------------------------

Fertig

Good Practice: Blogging

Fotos aus Uvs von Steffi, Linda und Lene

26. August 2007 von Paul Schroeder



Kategorie Allgemein | 0 Kommentare »

Steffis Kommentare zu den Fotos

26. August 2007 von Paul Schroeder

INTERVIEWS IN DER STEPPE

Unser zweiter spannender Auftrag soll eine Befragung mehrerer Nomadenfamilien ueber ihre Viehwirtschaft sein. Lange vor Sonnenaufgang klingelt unerbittlich der Wecker, aber der Fahrer ist so lieb, seine Ankunft selbststaendig hinauszuzoegern, so dass wir die Sonne vor unserer gemeinsamen Jurte in Ulaangom geniessen koennen.

Foto 1

Ab der Station unseres Praktikumstierarztes im etwa 50 km entfernten Sum-Center Taarialan ist der Tierarzt aufgrund einer Fortbildung in der Hauptstadt abkoemmlich. So begleitet uns seine taffe Frau Tsendjav, die als Tierarztgattin beste Kenntnisse besitzt, zusammen mit ihrem Sohn, selbst Tiermedizinstudent, auf einem

SUCCEDO

DISPOSITIF DE PRÉPARATION AU TEST D'ADMISSION AU BACHELOR DE PHILOLOGIE FRANÇAISE DE LA FREIE UNIVERSITÄT BERLIN.

MERCREDI 9 FÉVRIER 2011

Les conseils de Jenni pour l'expression écrite

Jenni est une étudiante de la FU qui a passé le test d'admission, comme vous, bientôt...

Dans cette vidéo, elle aimerait partager avec vous leurs méthodes pour améliorer l'expression écrite

SHARE IT

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LOGO SUCCEDO



A PROPOS DU BLOG SUCCEDO

Ce blog fait partie du dispositif de préparation au test d'admission en Bachelor de philologie française de la FUB.

Ce que vous allez trouver sur ce blog :

- Des conseils et des idées d'activités pour apprendre et vous préparer au test



Blog, Dept. Of Veterinary Medicine

IWM E-Learning Network – Workshop at DKU – Almaty, 29.05.2012

Blog succedo, Isabelle Ortiz, Dept. of Humanities

<http://succedo-fu-berlin.blogspot.com>




INTEGRATED WATERSHED MANAGEMENT
E-LEARNING NETWORK


Good Practice: E-Content

Online learning modules IWM

A. Stumptner
Dept. of Earth
Sciences

Freie Universität  Berlin

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e-Learning
in the Environmental & Geosciences

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[Gondwana](#)
[GR to Climate Change](#)
[Watershed Management](#)

[Startinformation](#)
[Introduction to WM](#)
[Interaction of geospheres](#)
[Landscape Sensitivity](#)
[Soil and Water Conservation](#)
[Planning cycle](#)

← →

- River bed dynamics

▼

River bed dynamics

Rivers are part of the hydrological cycle; they 'complete' the hydrological cycle studied before by concentrating the flow of water precipitated on the surface and taking it to the ocean or endorheic lakes (Bradshaw and Weaver 1995). Thus, rivers like the Gina river in Ethiopia develop where precipitation exceeds evapotranspiration plus infiltration. This applies also for only periodically or episodically surpluses. When this occurs depends on the characteristics of a watershed (e.g., bedrock).

Fluvial dynamics of the Gina river

The Gina river receives the water which fell as precipitation and circulated through the drainage basin. Additionally, the river contains the soil and rock fragments which were eroded from hill slopes. Loaded with these materials the Gina river erodes its river bed and banks. The river transports the material emanated from weathering and erosion on slopes and load of its own activity. Along the river course tributary streams join the river at confluences. These add water along the length of the river. Where the ability of the river to transport material decreases the transported load is deposited as fluvial sediment (Bradshaw and Weaver 1995; Marcinek 1997).

To understand river processes it is essential to know about the discharge behaviour which is explained on the following page.





Figure: The Gina river in Ethiopia;
Source: Hahl, R. 2002.

[Home](#) » [GeoLearning](#) » [Watershed Management](#) » [Interaction of geospheres](#) » [River bed dynamics](#)

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last Update: 09/07/2


Good Practice: E-Content

 **Flussbeispiele**
Flussbeispiele

Flachland

zur Detailansicht eines bestimmten Flusstyps klicken Sie bitte auf den entsprechenden Buchstaben in der Grafik.

Im Gastbereich ist nur der Flusstyp "A" verfügbar.



Navigation controls: ◀ K M S L ▶

Online learning
modules
Experimental
channel
Dept. of Earth
Sciences

Good Practice: E-Content

Multimedia archives



Freie Universität  Berlin

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USC SHOAH FOUNDATION INSTITUTE
FOR VISUAL HISTORY AND EDUCATION

Visual History Archive

[News](#)

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- [Use at the Freie Universität](#)
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[Enter Archive](#)

Home

The Visual History Archive at Freie Universität Berlin

The Freie Universität Berlin is the first European university that is providing access to the Visual History Archive of the Shoah Foundation Institute for Visual History and Education of the University of Southern California (USC). Students, teachers and researchers at the Freie Universität as well as external scientific institutions and researchers have access to the Visual History Archive. This makes it possible to view the 52,000 video interviews and testimonies with the survivors and witnesses of the Holocaust. The Visual History Archive is the world's largest historical video archive. This website provides you with information on the background and utilisation possibilities of the Visual History Archive.

- [Usage Information / Terms of Use »](#)
- [Introductory Presentations »](#)
- [Assistance with technical problems »](#)
- [In order to directly access the Visual History Archive, please use the link Enter Archive »](#)
- [Online Survey to evaluate the usage »](#)





News

- [AG Jüdische Sammlungen visit](#)
Presentation of the VHA and afterwards a reception in the Clubhaus of the FU on Thursday, 18.09.2008
10.09.2008
- [Symposium on "Oral History"](#)
Participation of the VHA at the Memorial to the Murdered Jews of Europe Foundation event.
01.09.2008
- [New third-party funding project](#)
The Stiftung Deutsche Klassenlotterie foundation is funding the use of VHA interviews in school education and the classroom.
28.08.2008

[more News »](#)

Good Practice: E-Content

„Telejura“

- Legal cases presented as episodes of a soap opera with recurring characters (Jenny, Mr. Konradi, ...)
- **Tools:**
 - Youtube
 - Facebook
 - Twitter
 - Podcast
- **Target group:** law students (beginners)
- combined with a civil law course at FU Berlin

= **Blended learning**



<http://www.telejura.de/>

4. Summary

E-Learning at FUB: Future activities

- Provide learning environment in the digital age
 - Blended Learning in M.A.
 - E-Learning 2.0
 - Mobile learning
 - E-Examination
 - ...
- Multimedia Archives
- Open access
- E-Research
- International cooperations

Providing E-Learning Services in HEI

e-learning
strat

institutional development

technical

legal
aspects

E-Learning in Higher Education Institutions

financial
resources

personell development

ical

Why consider teachers / lecturers?

e-learning integration can only succeed if

- teaching staff/lecturers have sufficient skills and expertise
- are motivated to employ e-learning
- partake in a critical number

**prominent role of teachers/lecturers in introducing
and establishing e-learning in higher education**



requires specific skills and expertise!

Thank you!

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