

Reinhard Altenhöner

Learning and working environments – what students expect. Results of a Student Design Contest

**The effect of new technologies on library design: building the
21st century library**
IFLA Satellite Conference

Emory University, Atlanta, Georgia, USA, 10 - 11 August 2011

Starting situation

- Increasing student numbers
- increased demands on the qualification and training of students
- Changed learning behavior, digital media
- Need for optimized study conditions - particularly in the area of infrastructure facilities on campus.
- → today needs?
How can requirements for the use of digital media and changing forms of cooperation between students with classical forms of work be brought together in libraries?
- Ask the students!
- → DINI CONTEST

What about DINI?



- German Initiative for Network Information
- Coordination and support to facilitate the management of modern information and communication technologies in Germany in the context of colleges and universities
- member organization with more than 100 media centers, academic universal libraries, computing centers and research institutions and research organization.
- DINI addresses topics like repositories, networking, e-publications, standardization and even real and virtual learning spaces
- contest: “Lebendige Lernorte”: living learning sites

Living Learning sites I



- How do the students define the ideal "living learning site"?
- What about the combination of quiet space for individual learning and well-equipped space for group working together. Can combine the two claims?
- Conditions:
 - Access to both digital and traditional media
 - Learning support technical and physical infrastructure
 - Web-based work environments
 - Learning support services
 - Promoting the learning processes of information and media literacy

Living Learning sites II



- 51 contributions, 5 finalists, 2 awards
- Broad mix of furniture designs, architectural designs and drawings for libraries as well as reflections on virtual learning systems, controllable electronic room booking system and a manifesto for green and alternative libraries
- Results: Examples and evaluation

Essentials

- Massive dissatisfaction with the given situation
- Students are looking for places of learning for the whole day, based on a full-time study
- Comprehensive and consistent solutions are requested: cooperation between different units is needed

Real and virtual Space

- How real and virtual world can be linked together properly
- Learning centers:
 - supporting teaching and learning
 - use of digital technologies and media
 - provision of learning environments
 - advice and support
 - access to print and digital media
 - offers to teach media literacy
- → professional support of student learning has become a core mission of universities.

Environment, green library, ecology and – personal well-being



Place to identify

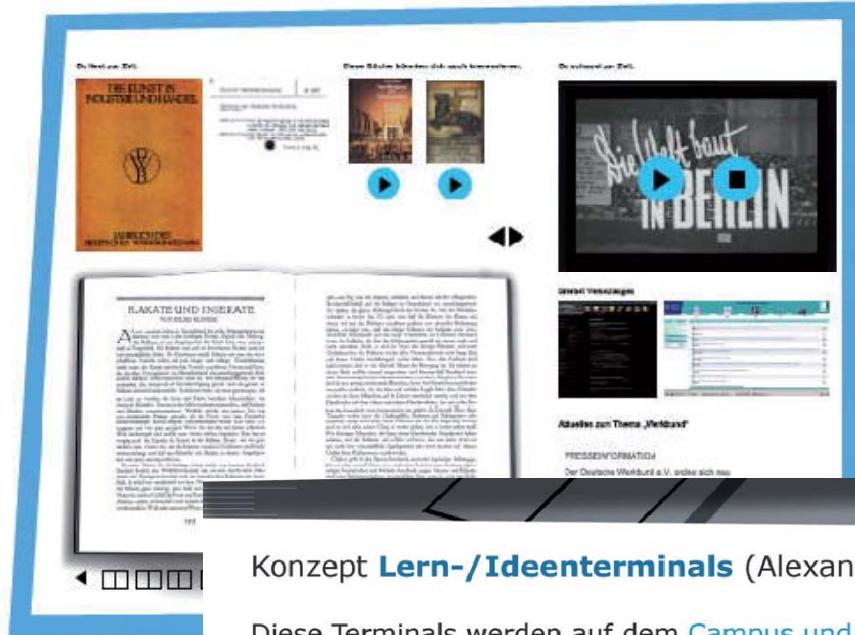


comfortably designed areas with plants and drinking water dispenser



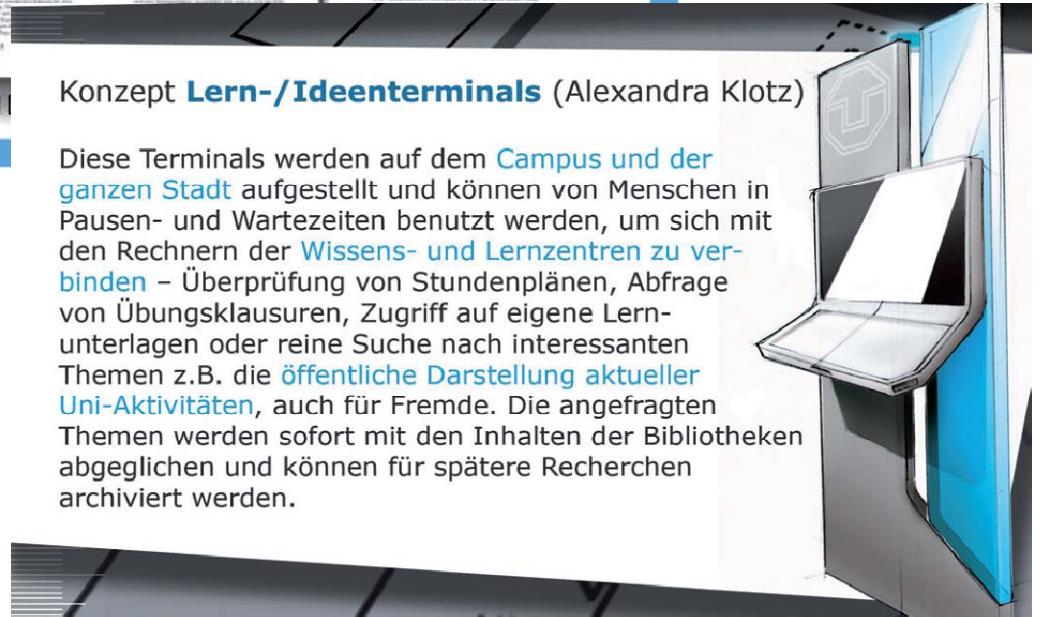
Adoption of given room situations

Libraries – stationary or flexible



Konzept **Lern-/Ideenterminals** (Alexandra Klotz)

Diese Terminals werden auf dem **Campus und der ganzen Stadt** aufgestellt und können von Menschen in Pausen- und Wartezeiten benutzt werden, um sich mit den Rechnern der **Wissens- und Lernzentren zu verbinden** – Überprüfung von Stundenplänen, Abfrage von Übungsklausuren, Zugriff auf eigene Lernunterlagen oder reine Suche nach interessanten Themen z.B. die **öffentliche Darstellung aktueller Uni-Aktivitäten**, auch für Fremde. Die angefragten Themen werden sofort mit den Inhalten der Bibliotheken abgeglichen und können für spätere Recherchen archiviert werden.



Requirements for technical equipment, services, web2.0

- few innovative technology-driven ideas
- quality and completeness of the equipment (for example, peripheral devices)
- connection of different media and types of learning
- Real services to facilitate the usage of university capacities



Furniture



Desktop – at your disposal



Furniture – extremely important



Mit einem die Lehne verstellbaren, individuell gepolsterten Aufsatz kann die Lehne an die Bedürfnisse des Rückens angepasst werden.



Bei diesem Entwurf handelt es sich um einen patentierten Gesamtanstrich, um das Sitzen grundlegend zu verbessern.



Lehnen- und Sitzpolster sind durch das hier dargestellte Clip-System einfach am Kunststoffrahmen zu befestigen. Sie lassen sich durch Zusammendrücken der Clips wieder lösen und an einem andern beliebigen Gestell fixieren.

flex a - wie sitzen wir morgen?



Viel zu kurze Rückenlehne, keine Unterstützung am Lordosenbereich, sehr harte Sitzfläche, keine Höhenverstellung.



flex b - wie sitzen wir morgen?



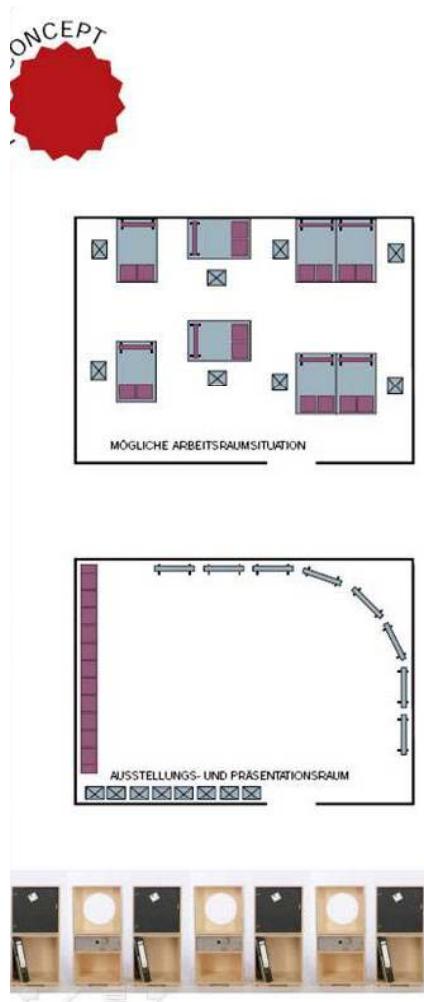
Die Sitzfläche und auch mit Polster steigbar. Die Polster für Sitz und Lehne können leicht wieder abgenommen werden.



'flex b' beinhaltet ein flexibles Gestell, welches sowohl in der Höhe verstellbar ist (Spielraum 10cm), als auch das so genannte "3D-Sitzen" ermöglicht und somit frei um die horizontale Achse bewegbar ist.



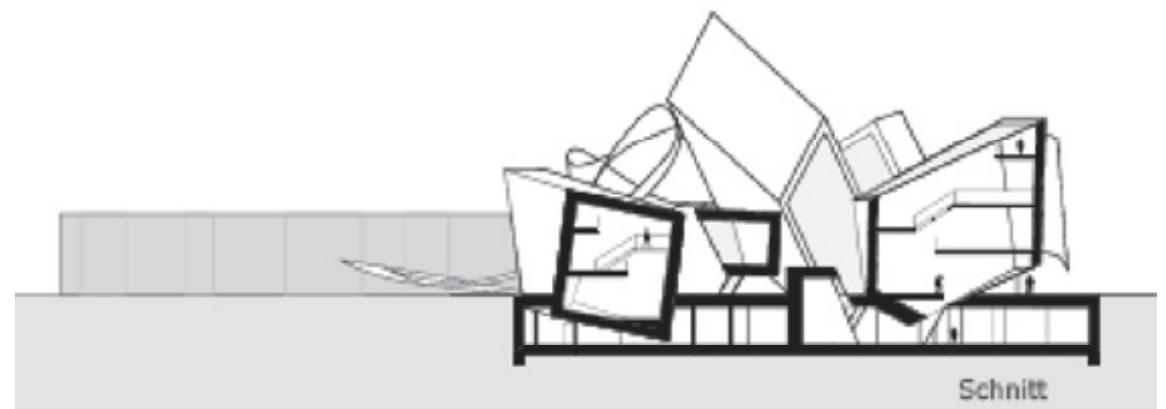
Furniture – flexibility again



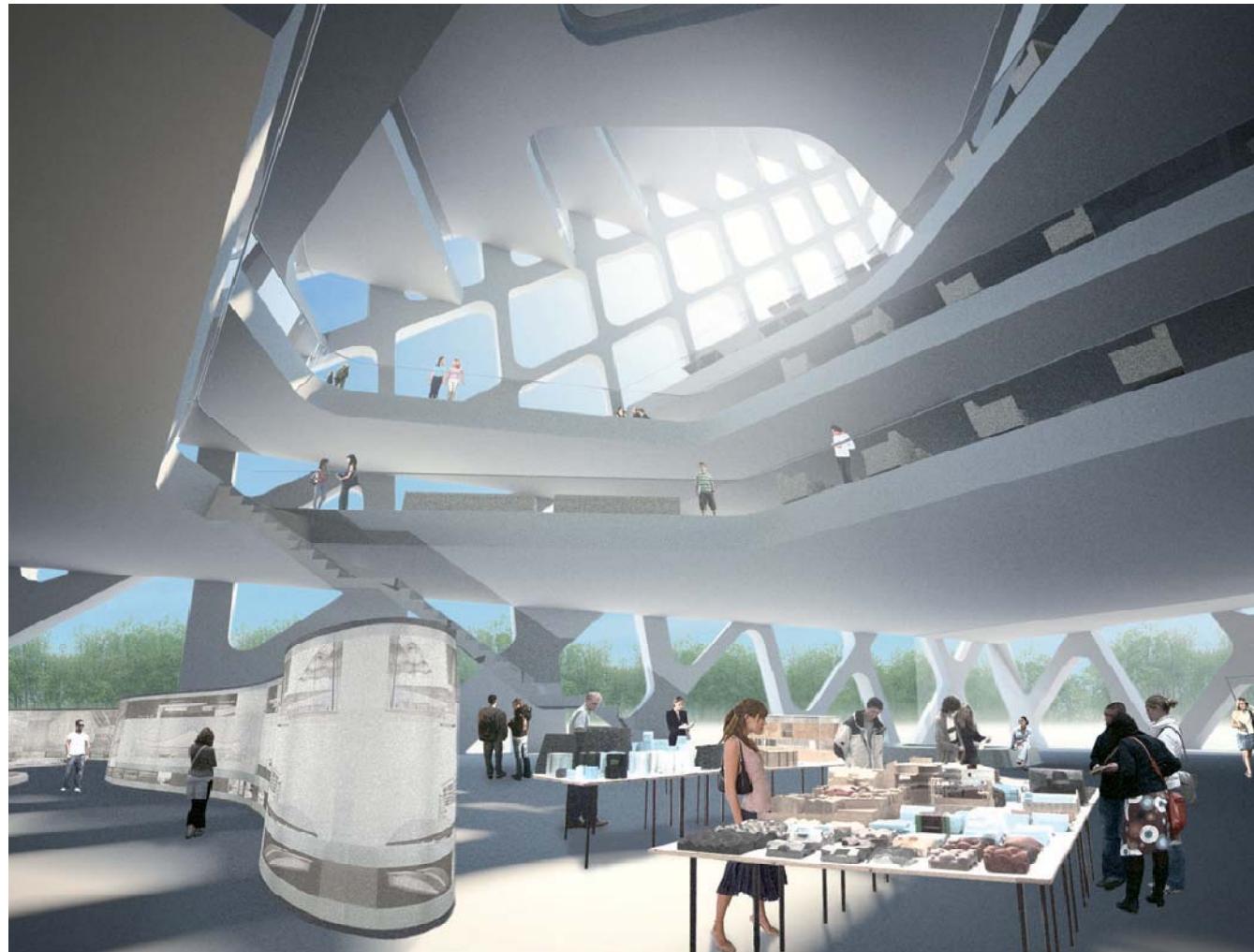
Library design

- Zoning, (peace, communication, recreation)
- Functional and multi-functional rooms
- A pleasant atmosphere (light, air, colors ...)
- Restrained technology
- combination of real and virtual space

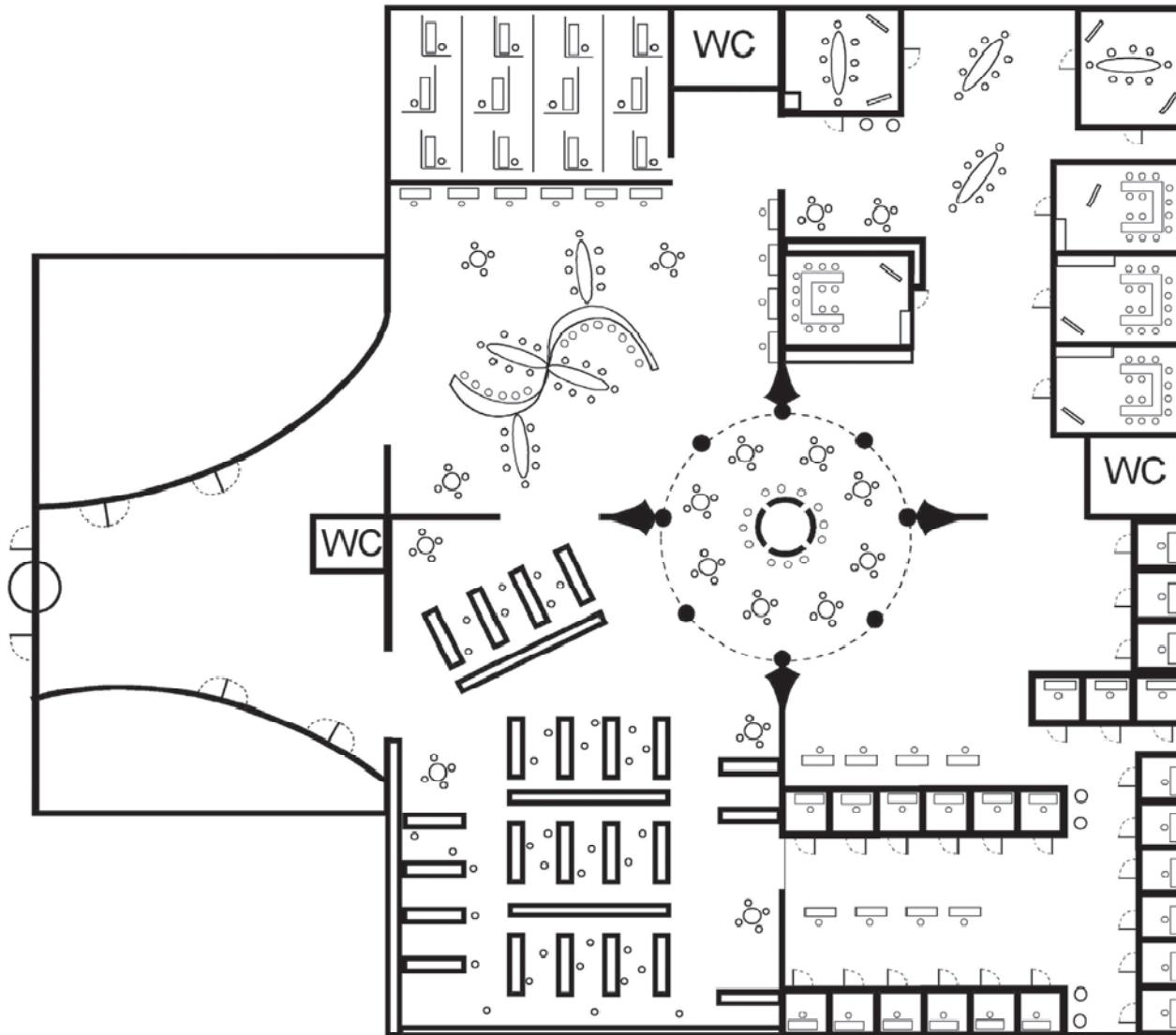
Flexibility, individuality, shared spaces, holistic approach



Transparency, harmony, enlightenment



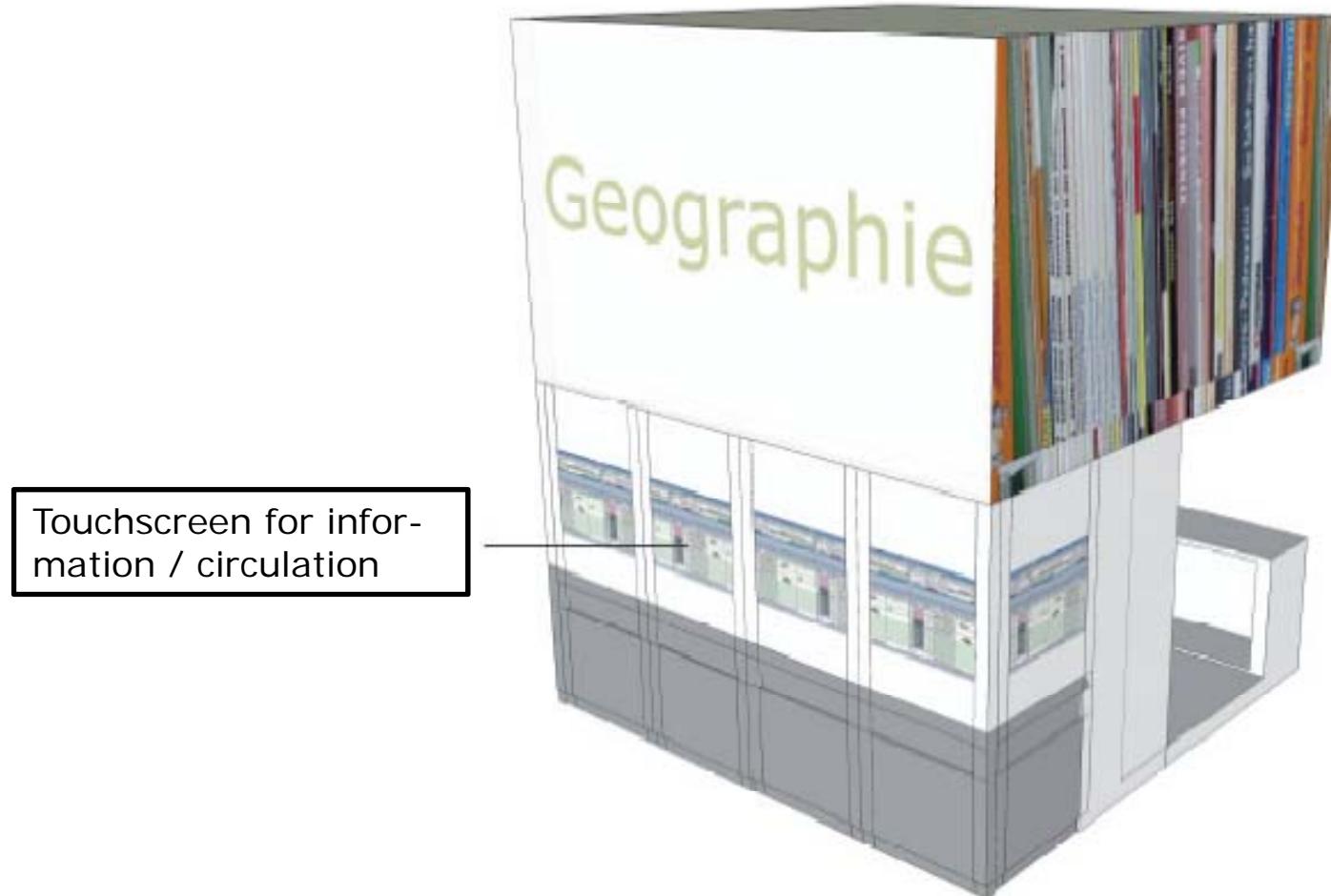
Zoning



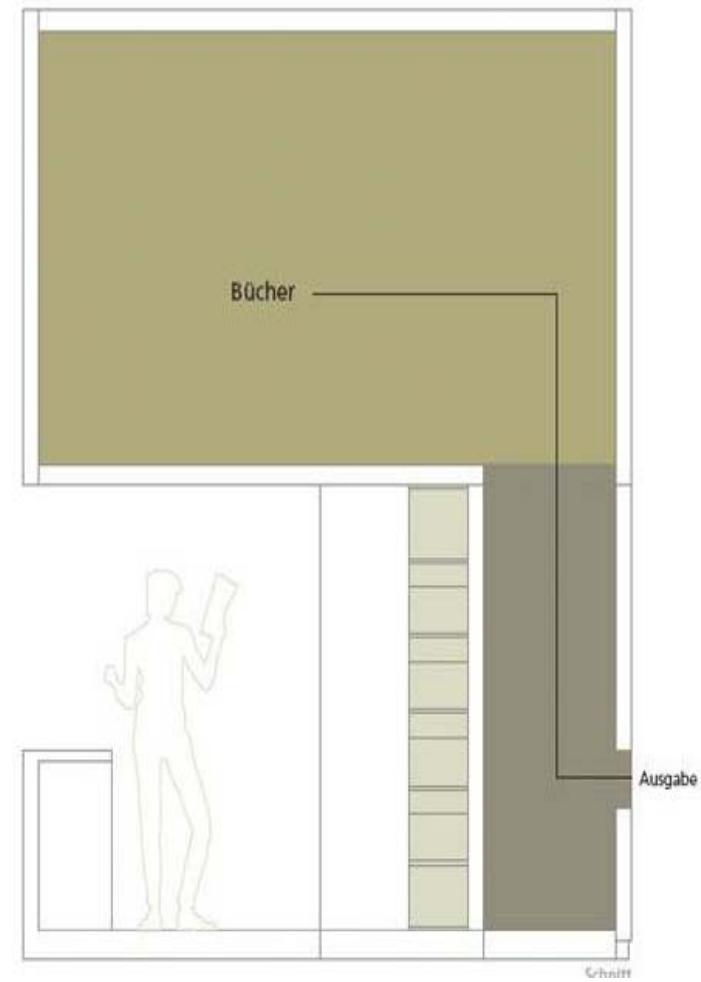
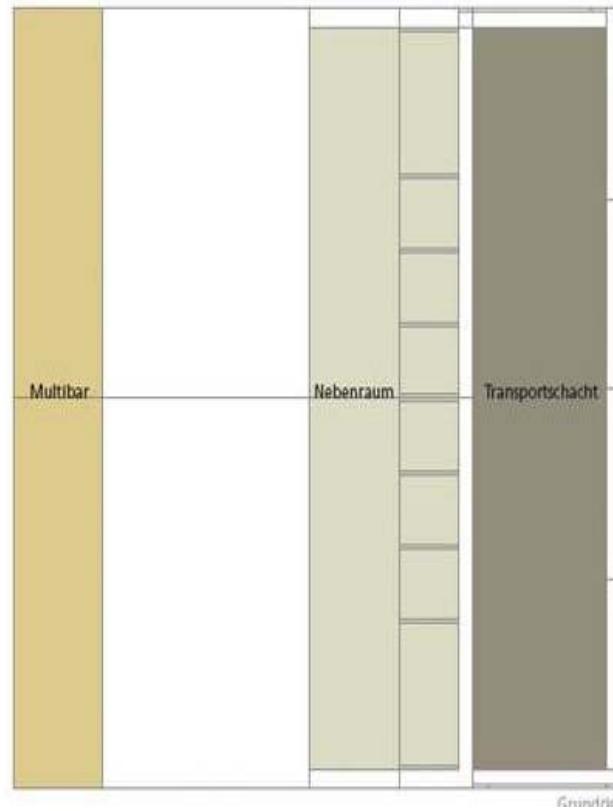
Flexible units also in the small-scale perspective



Traditional media and new learning approaches: a module concept



Detailed sketch for the module



Learning & working landscape

DEUTSCHE
NATIONAL
BIBLIOTHEK



Individual work: Clear spaces



Summary

- Strong demand for learning and communication centers in higher education – integral approach
- Increased use of on-site libraries – if the traditional and innovative approach join
- Technology is an important part of course, but not but not the all-important element
- The Living Learning Center: Some steps of expansion to become a central communication and learning site on campus
- Comprehensive, integrative and: small-scale units!