Academic Libraries and their Service Portfolio in the Digital Age

The German Case

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Outline

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1 Germany (1)

Some main facts:

Population: 80,6 million

Area: 357 km²

GDP: 3,7 trillion $

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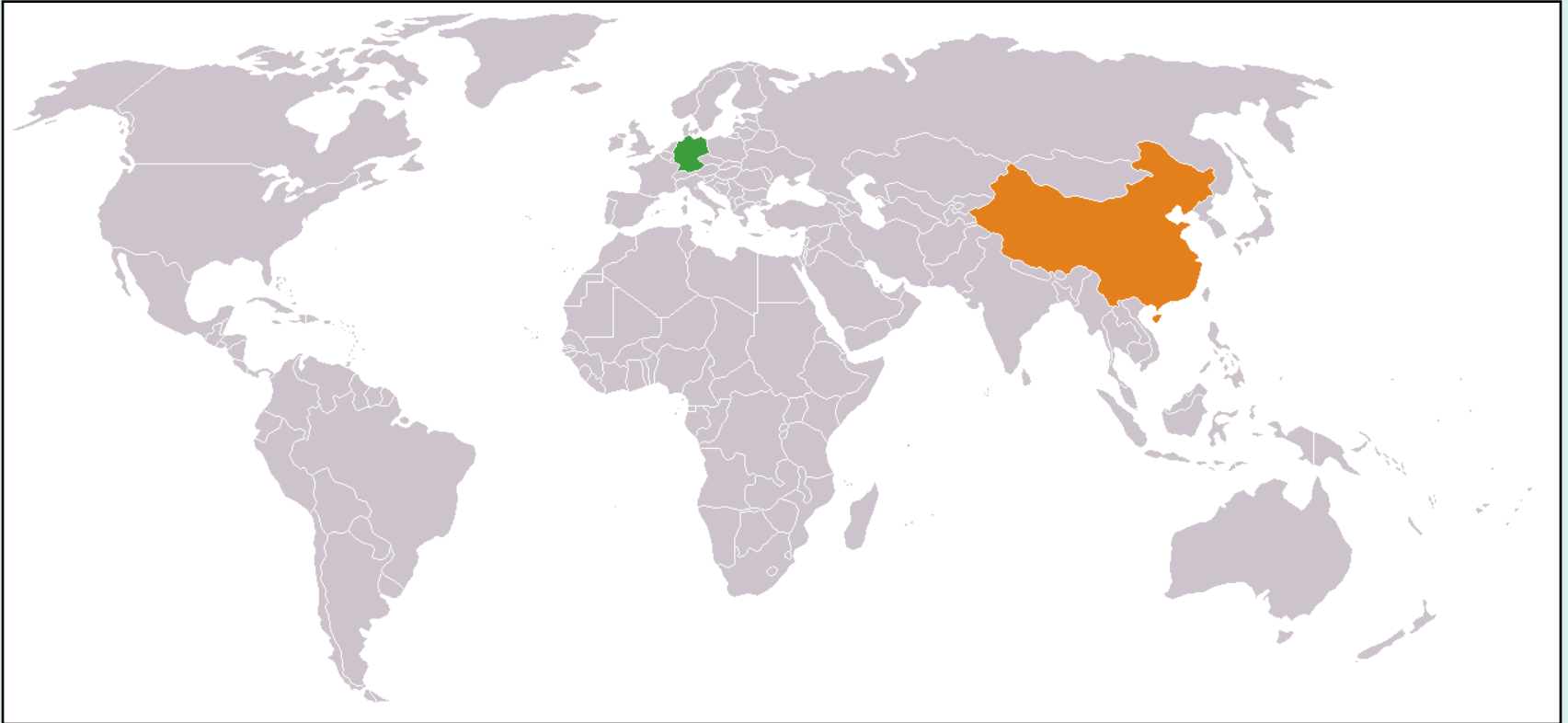
1 Germany (2)

2.1 Fields of Cooperation (1)

German academic libraries foster **intensive cooperation** based on a high level of **division of labor** with regard to the main library services:

o collection building, acquisition (and access)
o cataloging / indexing
o longterm preservation
o licencing
o open access
o mass digitization
o information literacy
o ...

2.1.1 Fields of Cooperation: Collection Building, Acquisition and Access (1)

As example:

the system of **Virtual Subject Libraries** (Subject Portals)
(as part of the system of subject information services)
More than 40 Virtual Subject Libraries, cooperatively run by 1-2 university or state libraries and relevant special libraries:

Name	Subject	Library
Crossasia	East and Southeast Asia	State Library Berlin
ViFaPsy	Psychology	Saarbrücken University Library
ViFaPharm	Pharmacology	Braunschweig University Library

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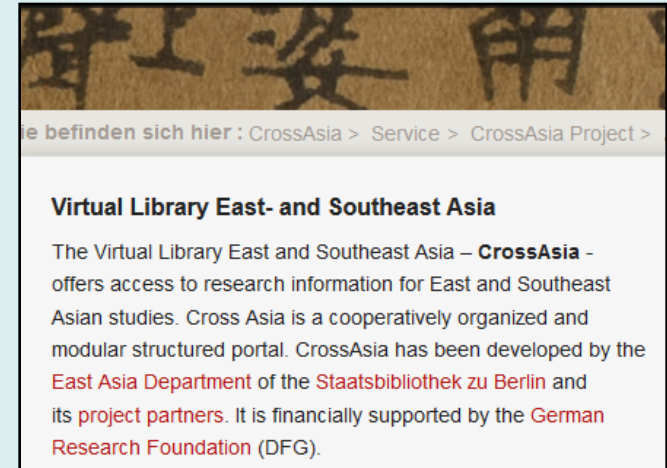
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2.1.1 Fields of Cooperation: Collection Building, Acquisition and Access (2)

Virtual Subject Libraries (ideally) consist of different subject-**specific modules**:

- subject guide / web catalog
- meta-search over relevant library catalogs
- journal article database
- subject repository (open access)
- e-journals
- bibliographic databases
- special repository for primary data (raw data)
- conference calendar
- conference database
- expertise network
- digital reference service

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2.1.1   Fields of Cooperation: Collection Building, Acquisition and Access (3)

Crossasia   *http://crossasia.org*   and
EconBiz   *http://www.econbiz.de*
as examples for Virtual Subject
Libraries

Virtual Library East- and Southeast Asia

The Virtual Library East and Southeast Asia – **CrossAsia** - offers access to research information for East and Southeast Asian studies. Cross Asia is a cooperatively organized and modular structured portal. CrossAsia has been developed by the East Asia Department of the Staatsbibliothek zu Berlin and its project partners. It is financially supported by the German Research Foundation (DFG).

About EconBiz

EconBiz is a search portal for economics, the portal was started in 2002 as the Virtual Library for Economics and Business Studies. EconBiz was initially funded by the ⊙ German Research Foundation (DFG) and is developed continually by the ⊙ German National Library of Economics (ZBW) with the support of the ⊙ EconBiz Advisory Board and cooperation partners.

The portal aims to support research in and teaching of economics with a central entry point for all kinds of subject-specific information and direct access to full texts.

EconBiz offers:

- a ⊙ search engine including important German and international databases for economics and business studies
- access to full texts on the Internet,
- a ⊙ calendar of events in economics and business studies,
- the reference service ⊙ EconDesk which supports you in your search for information in economics and business studies.

2.1.2 Fields of Cooperation: Cataloging / Indexing (1)

Regional library networks, backed by the

German National Library

o cooperative cataloging
o cooperative indexing
o union catalog
o interlibrary loan
o document delivery
o maintenance of the national "common authority file" for corporations, personal names, and subject headings

NETWORKS AND THEIR HEADQUARTERS

COMMON LIBRARY NETWORK, GÖTTINGEN (GEMEINSAMER BIBLIOTHEKSVERBUND, GBV)

COOPERATIVE LIBRARY NETWORK, BERLIN

Berlin Stiftung PK (GBV)

(KOOPERATIVER BIBLIOTHEKSVERBUND BERLIN-BRANDENBURG, KOBV)

NORTH RHINE-WESTPHALIA UNIVERSITY LIBRARY CENTER, COLOGNE

HESSIAN LIBRARY AND INFOR-MATION SYSTEM, FRANKFURT/MAIN

Göttingen

Cologne

(HOCHSCHUL-BIBOTHEKS-ZENTRUM DES LANDES NORDRHEIN-WESTFALEN, HBZ)

(HESSISCHES BIBLIO-THEKS- UND INFOR-MATIONS-SYSTEM, HEBIS)

Frankfurt

(SWB)

(SWB)

BAVARIAN LIBRARY NETWORK, MUNICH (BAYERISCHER BIBLIOTHEKSVERBUND, BVB)

SOUTHWEST GERMAN LIBRARY NETWORK, CONSTANCE (SÜDWESTDEUTSCHER BIBLIOTHEKSVERBUND, SWB)

Munich

Constance

2.1.3   Fields of Cooperation: Longterm Preservation (1)

nestor: **Ne**twork of Expertise in long-term **Stor**age and availability of Digital Resources in Germany
http://www.langzeitarchivierung.de

Cooperation of
o   libraries
o   archives
o   museums
o   other leading experts

WELCOME TO NESTOR

Welcome to nestor, the German competence network for digital preservation. Libraries, archives, museums and leading experts work together in nestor to ensure the long-term preservation and accessibility of digital sources. nestor is a cooperation association including partners from different fields, but all connected in some way with the subject of "digital preservation".

TRAINING

In collaboration with higher education partners, nestor develops initial and further training courses in the field of digital preservation in Germany.

■ QUALIFIZIERUNG

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2.1.3   Fields of Cooperation: Longterm Preservation (2)
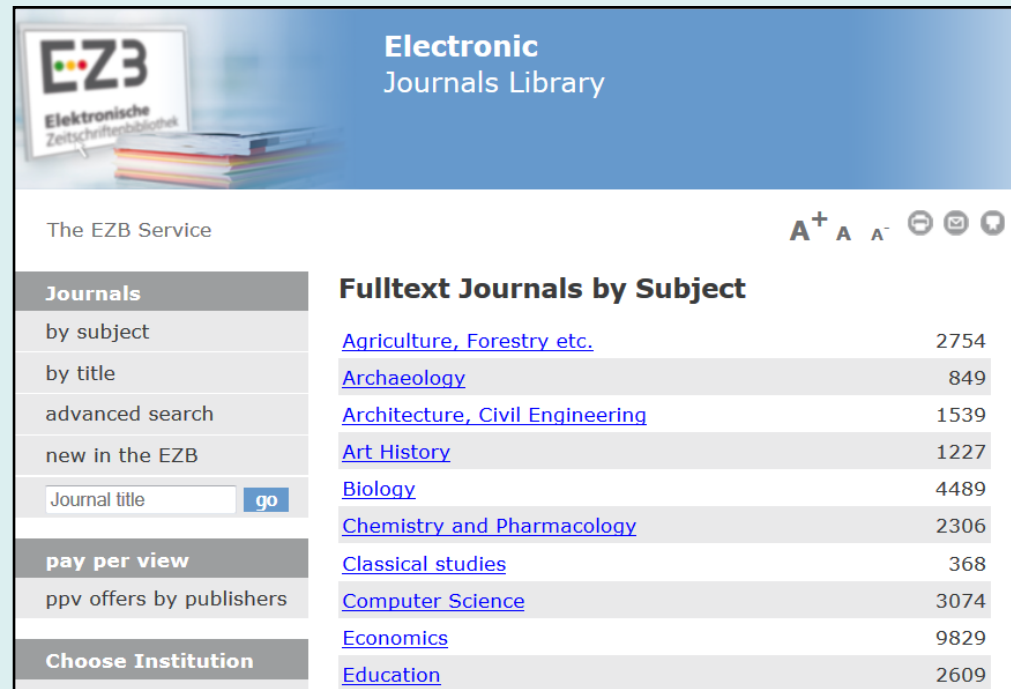
nestor – fields of operation:

o   training
- initial and further training courses in digital preservation
- eTutorials

o   standardization
- current standards in digital preservation

o   certification of trusted digital repositories/archives
- criteria and certification process
- nestor-seal

o   cost considerations

o   legal issues

2.1.4 Fields of Cooperation: Licencing (1)

EZB – Electronic Journal Library *http://ezb.uni-regensburg.de*
o   established in 1997
o   collaborative database
    for the identification
    and use of academic
    e-journals
o   75.500 academic
    e-Journals
o   620 participating
    libraries and research
    institutions

2.1.4 Fields of Cooperation: Licencing (2)

EZB – Electronic Journal Library:

○ each participating institution can manage their own licensed journals and integrate their own user information.

○ each library has a custom view of the database that reveals which titles are licensed by them and accessible from their network.

○ a "traffic light" system enables easy oversight

☑ ●○○ freely available

☑ ○●○ free for the staff and the students of the University of Applied Sciences Cologne (from within the Campus Network).

○○● free for the staff and the students of the University of Applied Sciences Cologne (from within the Campus Network). The institution has no continuous subscription on the journal. Therefore, only some of the published volumes are accessible as full texts.

☑ ○○● not accessible (in many cases you can see the TOCs and abstracts).

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2.1.4 Fields of Cooperation: Licencing (3)

EZB

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2.1.4 Fields of Cooperation: Licencing (4)

DBIS – Database Information System
http://www.bibliothek.uni-regensburg.de/dbinfo

o	provides joint access to academic databases
o	indicates whether a database is
- freely accessible
- nationally licensed
- licensed by the individual library, or
- offered from a publisher on a pay-per-use model

o	11.000 databases
o	290 participating libraries

2.1.4 Fields of Cooperation: Licencing (5)

DBIS – Database Information System

2.1.4 Fields of Cooperation: Licencing (6)

National licences / German Research Foundation
http://www.nationallizenzen.de/ueber-nationallizenzen/nationallizenzen

o   funded by German Research Foundation (2004ff.)
o   buys licences on a national level for unlimited use
o   134 databases, accessible for university members and
        German residents

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2.1.5 Fields of Cooperation: Open Access (1)

DINI – German Initiative for Network Information
http://www.dini.de

o developed a certificate / seal for institutional or subject repositories in order to standardize them.

Criteria are: Visibility of the service
Policy
Support of authors / publishers
Legal aspects
Information security
Indexing and interfaces
Access statistics
Long-term availability

2.1.5 Fields of Cooperation: Open Access (2)

DINI – German Initiative for Network Information

http://www.dini.de

o   runs the directory of German open access repositories
o   currently lists 185 repositories

Place	Name of repository	Seal	University
Aachen	**Online Publikations-Server der FH Aachen**		FH Aachen
Aachen	**Publikationsserver der RWTH Aachen University**		RWTH Aachen University
Aalen	**OPUS - Hochschulschriftenserver der Hochschule Aalen**		Hochschule Aalen - Technik und Wirtschaft Beethovenstraße 1 73430 Aalen
Augsburg	**Hochschulschriftenserver der Universität Augsburg**		Universität Augsburg

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2.1.5 Fields of Cooperation: Open Access (3)

BASE – Bielefeld Academic Search Engine

http://www.base-search.net

- o indexes repositories which use the OAI-PMH standard
- o quality control: intellectually selected sources
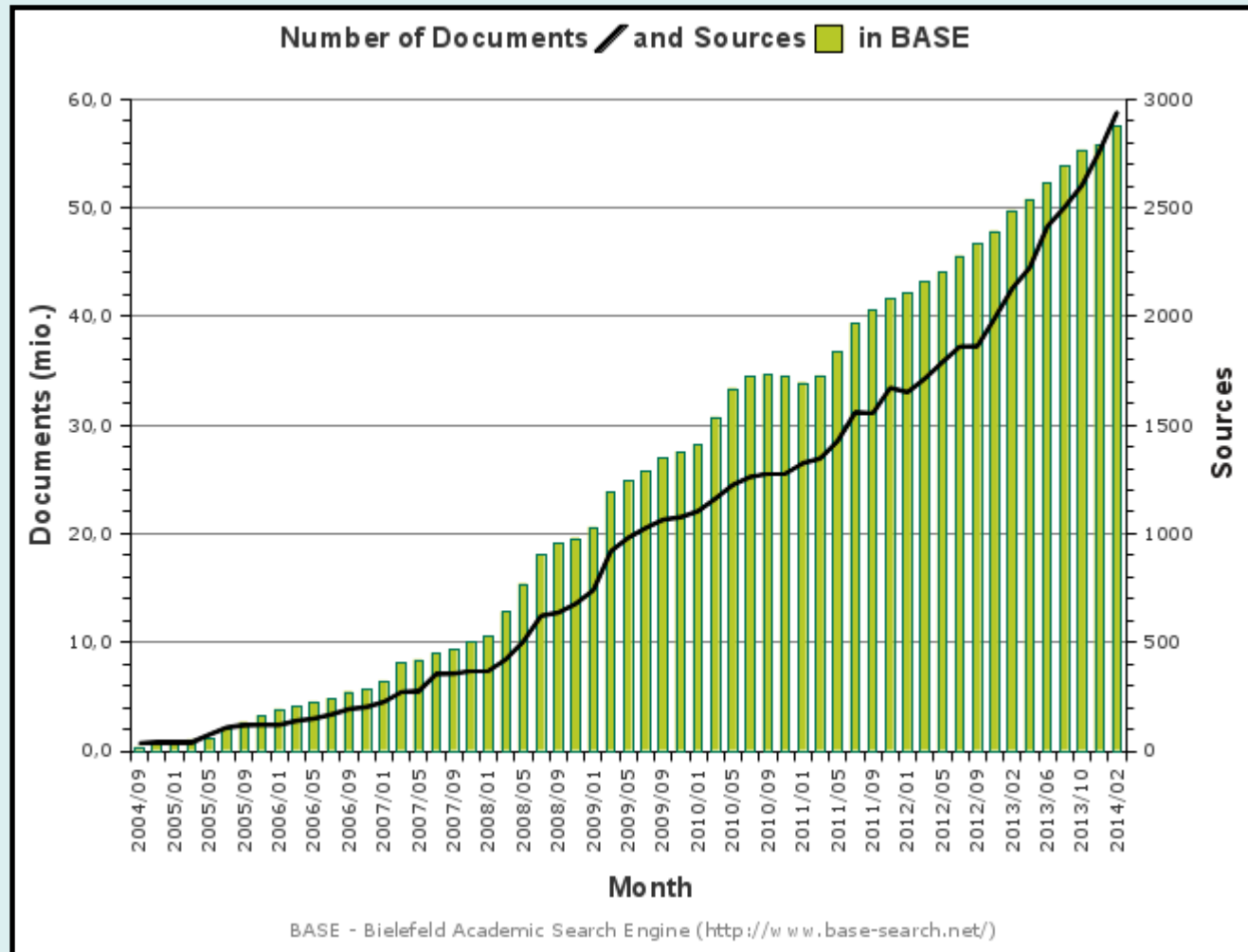- o display of search results includes precise bibliographic data
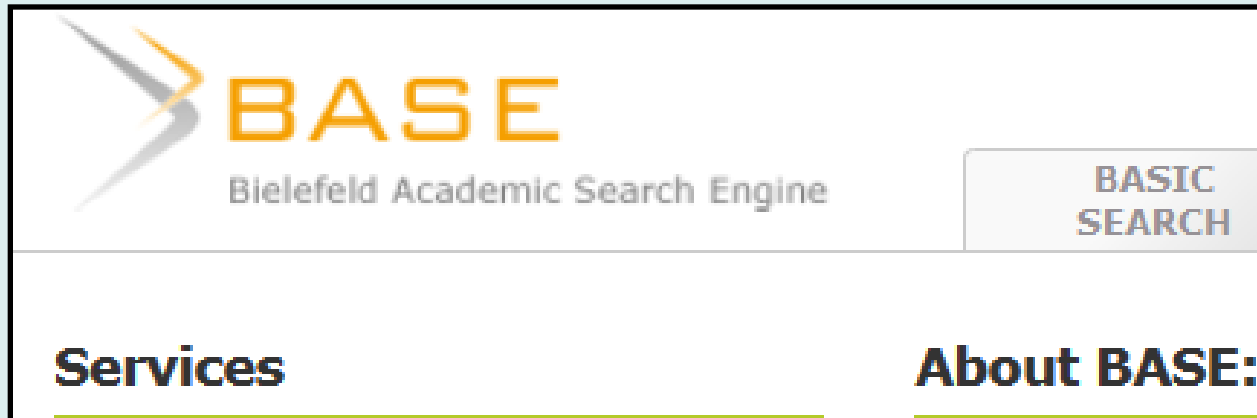
2.1.5 Fields of Cooperation: Open Access (4)

BASE – Bielefeld Academic Search Engine

Through BASE you can search:

Number of documents:	60,815,526		
Number of content sources:	2,943		
Last update:	11.04.2014		
Chinese Academy of Sciences: Knowledge Repository of CAS / 中国科学院合肥物质科学研究院		3,010	cn
Institute for the History of Natural Science, Chinese Academy of Sciences: IHNS OpenIR / 中国科学院自然科学史研究所机构知识库		5,913	cn
Peking University Institutional Repository (PKU IR) / 北京大学机构知识库		20,428	cn
Xiamen University Institutional Repository		72,164	cn
seeKSpace: Environmental and Ecological Science Data Center for West China		44,712	cn

2.1.5 Fields of Cooperation: Open Access (5)

BASE

Number of Documents / and Sources ▢ in BASE

BASE - Bielefeld Academic Search Engine (http://www.base-search.net/)

2.1.6 Fields of Cooperation: Mass Digitization (1)

ZVDD – Central Index of Digitized Prints

http://www.zvdd.de

o central access point to printed works from the 15th century up to today, digitized in Germany

o registers and indexes digital collections digitized by academic libraries (OAI-PMH)

o provides search for any other part of the bibliographic description, as well as titles of articles, headlines of chapters and table of contents

o all prints that come with a preview image can be consulted free of charge

o currently lists 1,1 million items

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2.1.6 Fields of Cooperation: Mass Digitization (2)
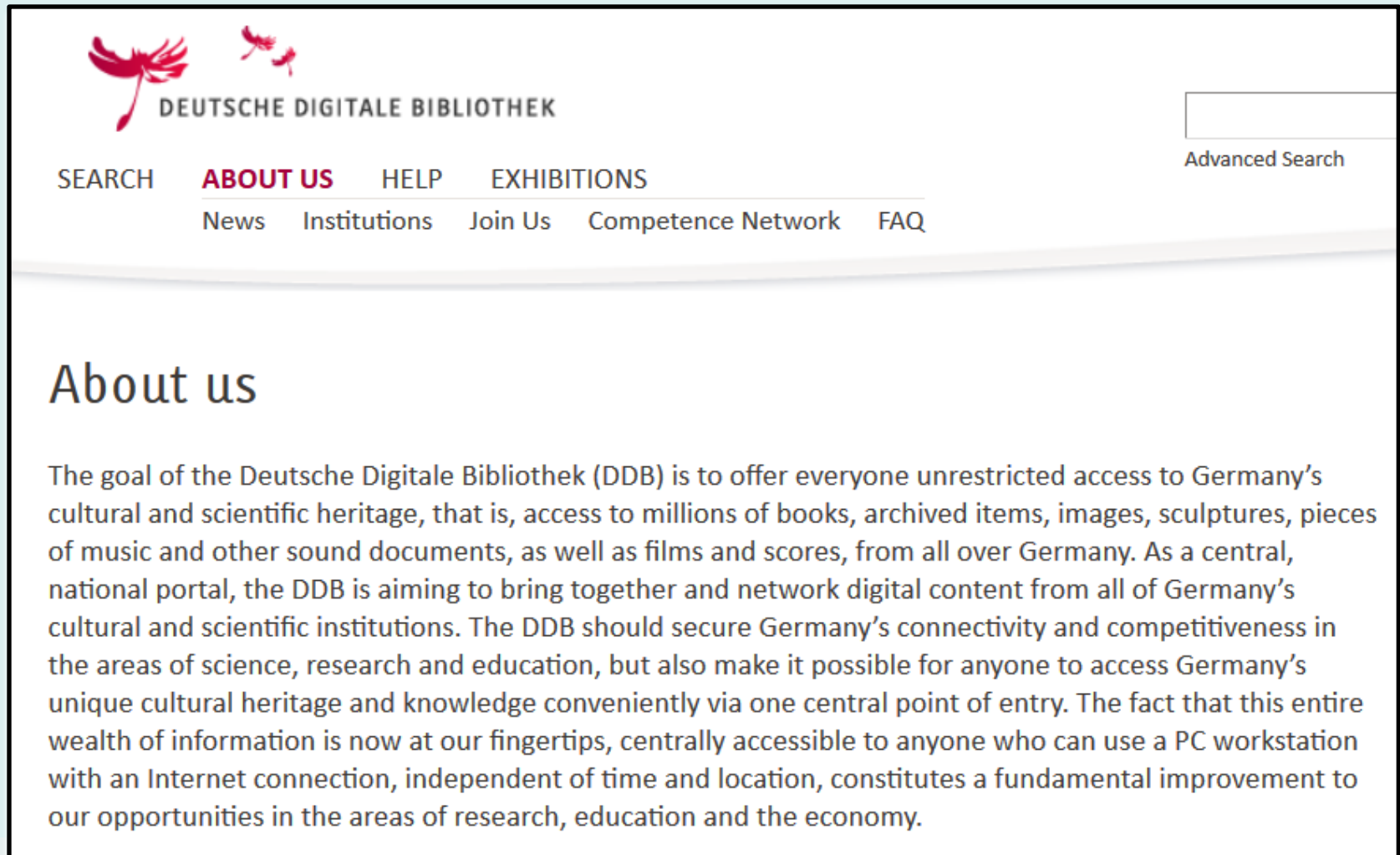
2.1.6 Fields of Cooperation: Mass Digitization (3)

DDB – German Digital Library

https://www.deutsche-digitale-bibliothek.de

o offers unrestricted access to Germany's cultural and scientific heritage

o central national portal, aims to network digital content from all of Germany's cultural and scientific institutions

o cooperation of libraries, archives, museums

o books, archived items, images, sculptures, pieces of music and other sound documents, as well as films and scores

o content is not held by DDB, but by participating institutions

o German contribution to Europeana, the European cultural memory: www.europeana.eu

2.1.6 Fields of Cooperation: Mass Digitization (4)

DEUTSCHE DIGITALE BIBLIOTHEK

SEARCH **ABOUT US** HELP EXHIBITIONS

News Institutions Join Us Competence Network FAQ

Advanced Search

About us

The goal of the Deutsche Digitale Bibliothek (DDB) is to offer everyone unrestricted access to Germany's cultural and scientific heritage, that is, access to millions of books, archived items, images, sculptures, pieces of music and other sound documents, as well as films and scores, from all over Germany. As a central, national portal, the DDB is aiming to bring together and network digital content from all of Germany's cultural and scientific institutions. The DDB should secure Germany's connectivity and competitiveness in the areas of science, research and education, but also make it possible for anyone to access Germany's unique cultural heritage and knowledge conveniently via one central point of entry. The fact that this entire wealth of information is now at our fingertips, centrally accessible to anyone who can use a PC workstation with an Internet connection, independent of time and location, constitutes a fundamental improvement to our opportunities in the areas of research, education and the economy.

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2.1.6   Fields of Cooperation: Mass Digitization (5)

2.1.7 Fields of Cooperation: Information Literacy (1)

LOTSE – Library Online Tour and Self Paced Education
http://lotse.sub.uni-hamburg.de

o cooperative network for information literacy
o provides training material (including online-Tutorials and videos) with regard to

- search engines
- deep web
- database search and other information ressorces
- citation principles
- plagiarism
- …

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2.1.7   Fields of Cooperation: Information Literacy (2)

Lotse

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2.1.7 Fields of Cooperation: Information Literacy (3)

Lotse

SURFACE WEB

DEEP WEB

Zum DeepWeb gehörende und damit nicht indexierbare Inhalte sind ...

· passwortgeschützte Inhalte

· Inhalte innerhalb von Katalogen oder Fachdatenbanken

· zu aktuelle Webseiten

· dynamisch generierte Inhalte, z.B. Suchanfragen

· etc.

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2.1.8 Fields of Cooperation: Reference (1)

There is still an important area **missing** in the field of cooperation among German libraries:

<p style="text-align:center">Reference and Information Services</p>

Although there are some local and smaller regional reference networks

o cooperation with regard to reference is not yet really developed and considered as an essential field of cooperation.

o while countries like Denmark, the UK or the US already possess vivid reference networks, e.g.:

Bibliotheksvagten: *http://www.biblioteksvagten.dk*

QuestionPoint: *http://www.questionpoint.org*

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2.2 Further Challenges and Requirements (1)

We are facing:

o   not only a media revolution which is still underway, but

o   an ongoing **revolution of information culture** as well

Some of the most important changes:

1   Search Behavior
2   Information Consumption
3   Learning Behavior
4   Research Behavior
5   New Distribution channels

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2.2 Further Challenges and Requirements (2)

1 Search behavior
- search engine (Google, Baidu etc.) influence: Type in one keyword and expect the whole range of information needed
- convenience as general expectation

Libraries tasks:
⇨ **intensify services for the development of information literacy**
⇨ **provide proactive information services**
⇨ **simplify the usabilty of library catalogs, discovery systems and other search devices for academic research**

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2.2 Further Challenges and Requirements (3)

2   Information consumption
o   massive growth of information consumed, but
o   decrease of in-depth analysis and time spent to understand and evaluate the information retrieved

Libraries tasks:
⇨   **intensify services for the development of information literacy**
⇨   **provide personalized services (reduction of complexity)**
⇨   **enhance reference services (local, regional and national) to collaborative reference services (24/7)**
⇨   **provide information consultancy** (embedded librarian, personal librarian)

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2.2 Further Challenges and Requirements (4)

3 Learning behavior of students

o   collaboration, working groups (social networks)

o   e-preference

Libraries tasks:

⇨   **enhance the teaching library to a convenient physical as well as electronic learning environment**

⇨   **emerge the library as a place of collaboration**

⇨   **consider the library as learning space**

⇨   **provide virtual text books and electronic reserve lists** (virtual learning environment)

2.2 Further Challenges and Requirements (5)

4 **Research behavior of scholars**

o collaboration, working groups

o e-preference

o growing importance of raw data (primary data)

o growing need of information consultancy during the whole research process

Libraries tasks:

⇨ **develop and maintain virtual research environments (VRE)**

⇨ **develop and maintain methods and tools for storage, indexing of and access to raw data (primary data)**

⇨ **put into practice the concept of the embedded librarian**

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2.2 Further Challenges and Requirements (6)

5 Changing distribution channels

o networked and "informal" communication (discussion lists, blogs, social networks, collaborative working spaces, wikis…)

o open access

o repositories

Libraries tasks:

⇨ **act as a publishing house**

⇨ **maintain institutional and subject repositories**

⇨ **provide assistence in online and open access publishing (stylesheets, digital rights management, copyright consultancy)**

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2.3 Virtual Research Environments (1)

VRE:

- a **social** as well as a **technical** achievement
- **community building** facilitated by computational devices
- supports **all stages of research** from
  - data collection and
  - data analysis to
  - scholarly publication

Context (sometimes synonym):

- e-infrastructure (e-Science: UK, Germany)
- cyberinfrastructure (USA)
- collaboratory

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2.3 Virtual Research Environments (2)

A **VRE** is a web-based environment for

- o **access to data**, tools, applications and resources
- o **collaboration** with other researchers
  - over distance
  - from different disciplines
  - on an international level
- o **preserving** or taking care of data and other outputs

cf. ***Carusi**, Annamaria, **Reimer**, Torsten: Virtual Research Environment Collaborative Landscape Study. 2010*
http://www.jisc.ac.uk/publications/reports/2010/vrelandscapestudy.aspx

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2.3 Virtual Research Environments (3)

Basic elements:

- **informations objects**
  - raw data, primary data
  - non-textual data (images, audiofiles, numeric files, simulations…)
  - publications (repositories)
- **tools** and **software** needed to manage the research like
  - simulation software
  - data-mining tools
  - visualization tools
  - …

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2.3 Virtual Research Environments (4)

Basic elements (cont.):

- o **hardware** and systems software
  - **large capacity computers** (GRID computing)
  - collaboration technologies
- o **authentification**
- o **rights management**
- o **project planning**

As an example:
TextGrid: Virtual Research Environment for the Humanities
https://www.textgrid.de/en

2.3 Virtual Research Environments (5)

2.3 Virtual Research Environments (6)

TextGrid

TextGrid is a joint project of ten partners, funded by the German Federal Ministry of Education and Research (BMBF) for the period from June 2012 to May 2015 (reference number: 01UG1203A).

Answering an increasing demand for digital and collective research features in the humanities, TextGrid has, since its start in 2006, established the infrastructure for a respective virtual research environment. In continuous exchange with the scientific community, TextGrid has developed a variety of tools and services available for free download in a stable version. Together with the TextGrid Repository, the Virtual Research environment TextGrid offers humanist researcher in the humanities sustainable editing, storing and publishing of their data in a thoroughly tested and safe environment.

Target groups

- **humanities scholars** using TextGrid for their research projects
- **developers** adapting TextGrid tools and services for specific scholarly needs
- **academic institutions** (e.g. archives, libraries) storing data in TextGrid or linking data to own data bases

The vision of a **digital ecosystem** is based on the open source idea, allowing for free exchange of tools and data, whereby adaptation concerning discipline-specific needs is made possible. Researchers from a wide range of humanistic disciplines such as philology, linguistics, musicology, art history, classical philology and musicology are actively working with TextGrid have joined the TextGrid consortium in the second phase of the project.

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2.3 Virtual Research Environments (7)

The **role of libraries**:

o   participate in the **development** of VREs along with IT specialists, researchers, academic institutions

o   curate and **maintain raw data** and information

- structuring (indexing)
  - ⇨ common taxonomies, data standards, metadata
- administration
  - ⇨ networked open access repositories for raw data and full text publications (interoperability)
- longterm preservation
  - ⇨ cooperative longterm storage using persistent identifiers

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2.3 Virtual Research Environments (8)

The **role of libraries** (cont.):

o **interconnect publications** / texts / research findings to relevant
  - raw data
  - information objects in different formats like simulations, three-dimensional models, pictures, films

o guarantee **longterm preservation**
  - cooperative longterm storage using persistent identifiers

o **interconnect** and link VRE to **external VREs**

o guarantee professional maintenance and **sustainability** of the whole VRE as research infrastructure

⇨ VREs are supposed to become vital elements of the research infrastructure in general

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3 Conclusion (1)

Challenges and **tasks** with regard to library cooperation:

o system of **subject information services** and virtual subject libraries

o cooperative **licencing** strategies

o system of **open access repositories** based on interoperability

o national strategy of **mass digitization**

o cooperative and standardized **longterm preservation**

o cooperative efforts for the improvement of **information literacy**

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3 Conclusion (2)

Challenges and **tasks** with regard to single libraries:

o **proactive** services (push services)
o **personalized** services
o enhanced **reference** services
o information **consultancy** (personal and embedded librarian)
o library as physical learning space and as **virtual learning environment**
o library as part of research infrastructure (**virtual research environment**)
o library as **publishing house** (open access, repositories)

We are still at the beginning of an exciting age!

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Libraries have to and will cope with new challenges and surprising inventions

Thank you very much for your attention
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Literature:

Carusi, Annamaria, Reimer, Torsten: Virtual Research Environment Collaborative Landscape Study. 2010
http://www.jisc.ac.uk/publications/reports/2010/vrelandscapestudy.aspx

Libraries and the Information Society in Germany. Engelbert Plassmann, Hermann Rösch, Jürgen Seefeld, Konrad Umlauf. Wiesbaden: Harrassowitz 2014. (will appear in June)

Libraries and the Information Society in Germany presents, for the first time, the contemporary German library system not from a library insider's view, but rather from a comprehensively societal perspective. The roles and functions of libraries are analyzed and assessed from this vantage point. The authors – both researchers and practitioners – identify historical developments, describe current trends taking into account sociostructural contexts, and outline options for action. The changes that libraries and library science can embrace and have already embraced in part include, in addition to functional changes and systematic networking, possibly approaching other segments of the information sector or even merging with them.
This edition represents a thorough update to the most recent German edition. Several chapters expanded in parts in order to address developments such as Library 2.0, the Semantic Web, Linked Open Data, or Electronic Resource Management.

Engelbert Plassmann, Hermann Rösch, Jürgen Seefeldt and Konrad Umlauf

Libraries and the Information Society in Germany

An Introduction

Translated by Dale Askey and Jennifer Drake Askey

Harrassowitz

www.harrassowitz-verlag.de

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Internet Resources

BASE – Bielefeld Academic Search Engine (Open Access)
http://www.base-search.net
Bibliotheksvagten (Reference)
http://www.biblioteksvagten.dk/
Crossasia (Virtual Subject Library: East and Southeast Asia)
http://crossasia.org
DBIS – Database Information System (Licencing)
http://www.bibliothek.uni-regensburg.de/dbinfo
DDB – German Digital Library (Mass Digitaization)
https://www.deutsche-digitale-bibliothek.de
DINI – German Initiative for Network Information (Open Access)
http://www.dini.de
EconBiz (Virtual Subject Library: Economics)
http://www.econbiz.de
Europeana (Mass Digitization)
http://www.europeana.eu
EZB (Electronic Journal Library) (Licencing, Open Access)
http://ezb.uni-regensburg.de

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Internet Ressources

informationskompetenz.de (Information Literacy)
http://www.informationskompetenz.de
LOTSE – Library Online Tour and Self Paced Education (Information Literacy)
http://lotse.sub.uni-hamburg.de
mdz – Munich Digitization Centre (Mass Digitization)
http://www.digitale-sammlungen.de
National Licences (Licencing)
http://www.nationallizenzen.de/ueber-nationallizenzen/nationallizenzen
Nestor (longterm preservation)
http://www.langzeitarchivierung.de
Priority Initiative Digital Information (Licencing)
http://www.nationallizenzen.de/ueber-nationallizenzen/allianz-lizenzen-2011-ff
QuestionPoint (Referenc)
http://www.questionpoint.org
TextGrid: Virtual Research Environment for the Humanities
https://www.textgrid.de/en
ZVDD – Central Index of Digitized Prints (Mass Digitization)
http://www.zvdd.de

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