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Libraries in partnership with research

E(nhanced)-research and the future role and tasks of research libraries

Dr. Norbert Lossau
Niedersächsische Staats- und Universitätsbibliothek Göttingen

Academica 2008

4 November 2008,
Tartu University/Library

Topics

- Setting the Scene: e-Science/e-Research/e-Humanities and the need for new research infrastructures
- Digitisation for the Arts and Humanities: technology, collections and workflows
- Open access and Digital Repository Networks: a new digital research infrastructure
- Grid based research infrastructures and new tools
- The future role of research libraries
- Characteristics of future library services

Göttingen State and University Library of Lower Saxony

- 1734 founded
- Largest research library in the 18th century in Europe ("Library of the Enlightment")
- Historical "National Library" for the 18th century
- Among the 5 major research libraries in Germany
- More than 4,000 visitors (only in the central Campus library)
- Major Special Collections Library (16, like Pure Mathematics, Anglo-American History, Culture, Politics, Estonian Literature, Language and Ethnology, Hungary, Finland, Forrestry, Astronomy, Astrophysics, Geophysics)
- One department: national digitisation centre (Göttinger DigitalisierungsZentrum, GDZ)
- A leading Open Access Institution in Germany
- Nationally and internationally leading in developing digital services and information infrastructures (like Repository networks, Grid-tools for Humanities)

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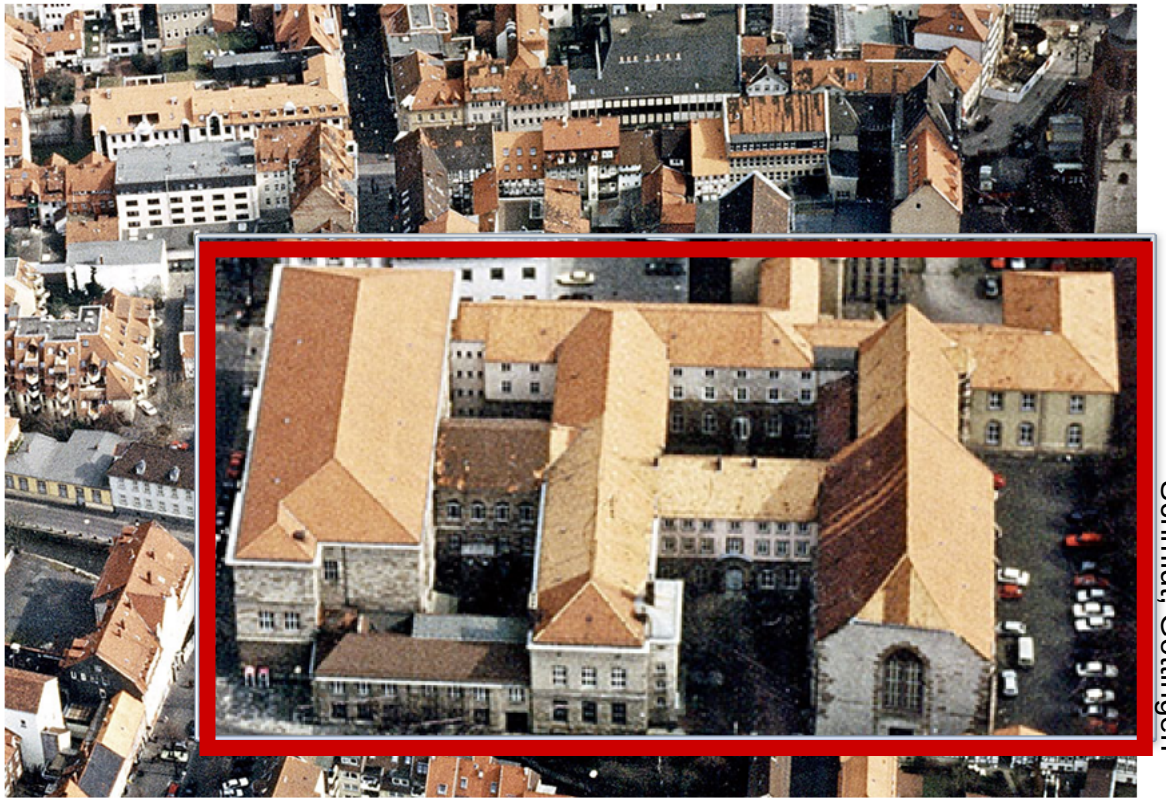
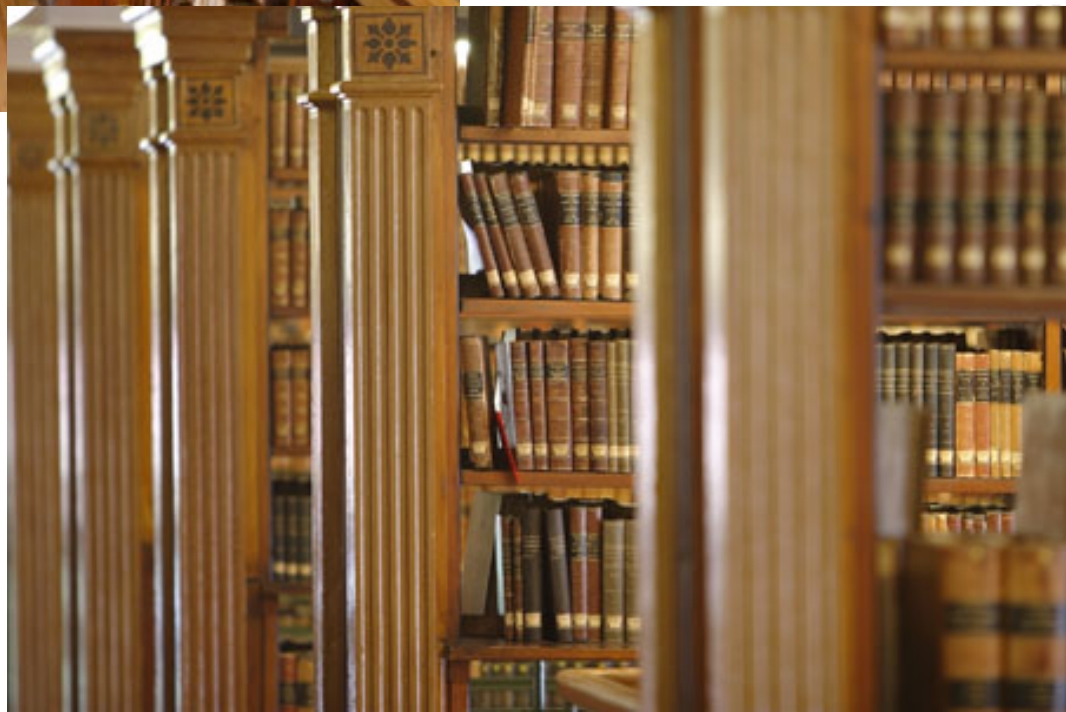


Photos: Ronald Schmidt, Göttingen

Niedersächsische Staats- und Universitätsbibliothek, Historische Forschungsbibliothek

Heyne-Forschungs-leesesaal, SUB Göttingen



Photos: Ronald Schmidt, Göttingen

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Niedersächsische Staats- und Universitätsbibliothek,

Zentrale Campus - Bibliothek

Photos: Ronald Schmidt, Göttingen

Lossau

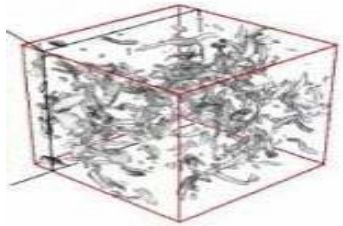
Emergence of a New Science Paradigm

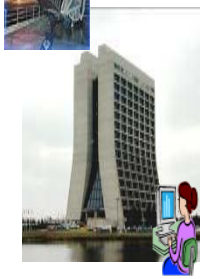
- Thousand years ago – **Experimental Science**
  - Description of natural phenomena
- Last few hundred years – **Theoretical Science**
  - Newton's Laws, Maxwell's Equations…
- Last few decades – **Computational Science**
  - Simulation of complex phenomena
- Today – **eScience or Data-centric Science**
  - Unify theory, experiment, and simulation
  - Using data exploration and data mining
    - Data captured by instruments
    - Data generated by simulations
    - Data generated by sensor networks

➢ Scientist analyzes databases/files

➢ Commercial and academic applications

$$\left(\frac{\dot{a}}{a}\right)^2 = \frac{4\pi G\rho}{3} - \mathrm{K}\frac{c^2}{a^2}$$





(With thanks to Jim Gray)

Acknowledgments go to Tony Hey, VP Microsoft, 2007

e-Science

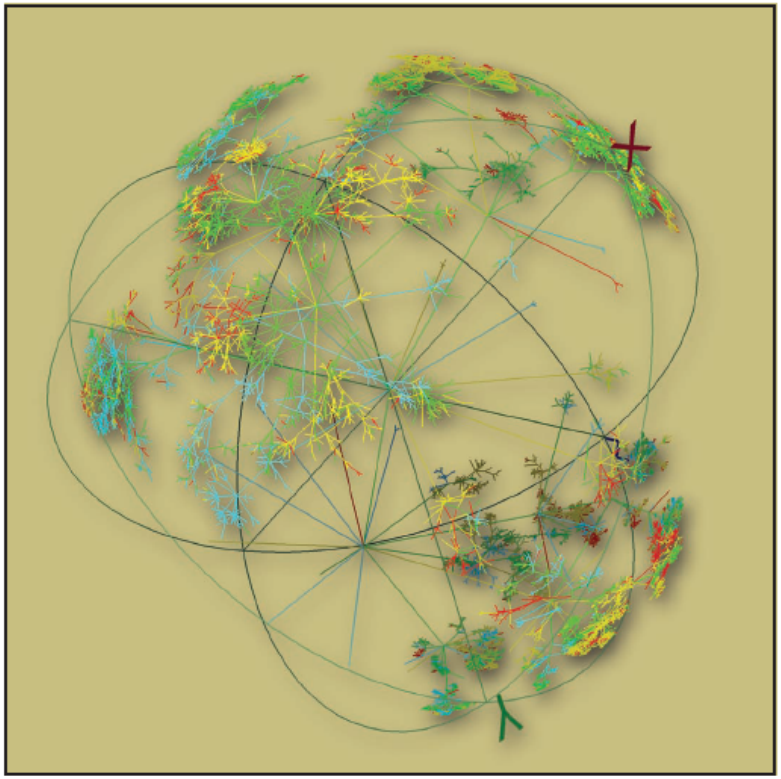
e-Science describes new ways of performing research, that are characterised by colloborative, networked generation of knowledge, widespread scientific communication and shared use of physically distributed resources

and enabled through ICT-technologies

Knowledge is not any longer only the knowledge of individuals but global, networked knowledge

e-Science can be applied to all disciplines (e-Research)

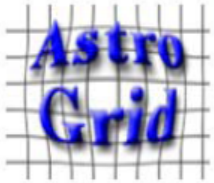
Cyberinfrastructure Vision for 21st Century Discovery

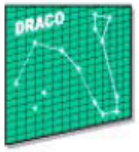


National Science Foundation
Cyberinfrastructure Council
March 2007

International Virtual Observatory Alliance

www.ivoa.org





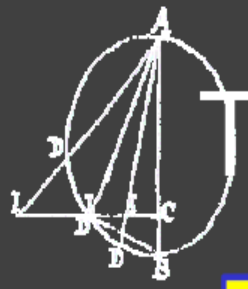
From the presentation:

Data behind a Publication: an astronomer‘s view

Wolfgang Voges, Max Planck Institute for Extraterrestrial Physics with contributions from Carlson, Genzel, Hasinger, Lemson, Springel, Szalay

Golm, 30 March 2006

www.g-vo.org



The Virtual Observatory

Astronomer

User Interface

There are 125 galaxies with the following coordinates. Thank you for using the VO today.

Find all old radio galaxies in the range of 0.4 < z < 0.7 that lie within 2' of an extended x-ray source.

Middleware Layer "Virtual Telescope"

Data Access Layer

Metadata Services

Archive Information Services

Compute Services

Metadata Services

Other Services

Archive Information Services

Compute Services

Metadata Services

Other Services

Tele-scopes

Simu-lations

Satel-lites

Anten-nas

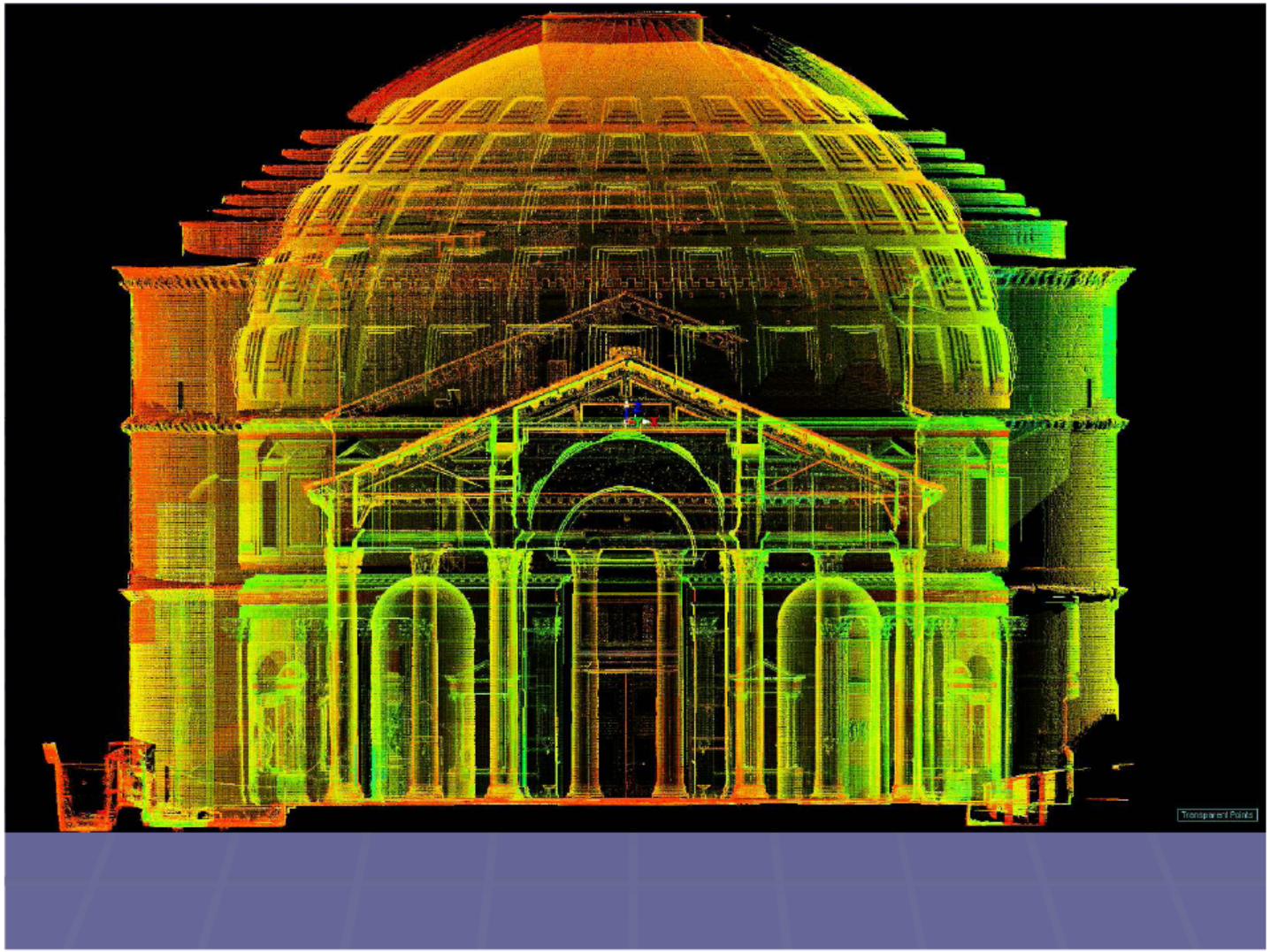
Data

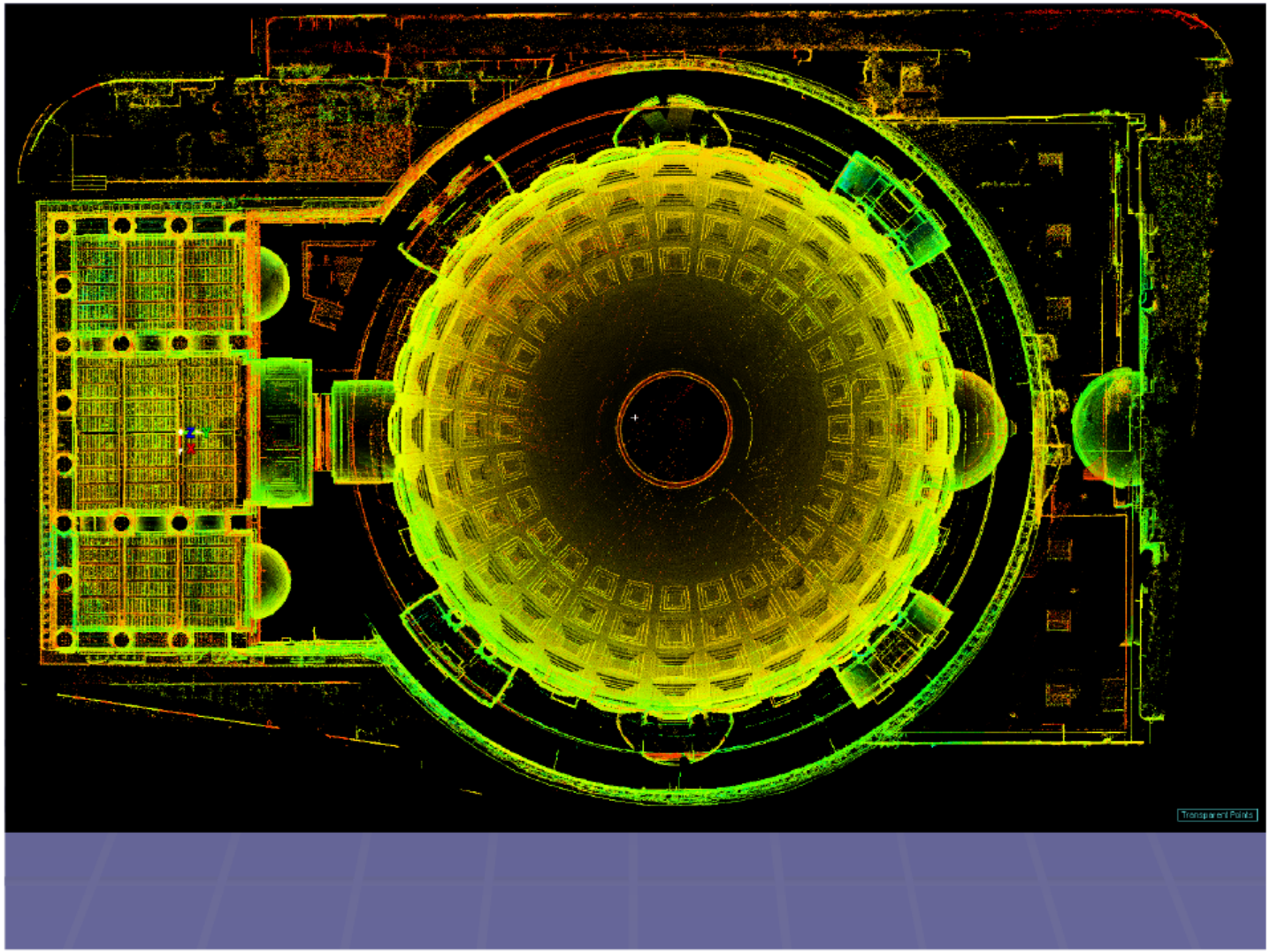
The Digital Pantheon Project, Bern, CH

http://www.karmancenter.unibe.ch/pantheon

- Cooperation of archeologists, mathematicians, art historians, computer scientists, science historians
- Goal: To carry out research about the Pantheon, collaboratively, using digital technogies and the World Wide Web
- One instrument (among others): Digital 3D Modell of the Pantheon, 540.000.000 points (9 GB data), created through laser scanning, comprises coordinates of all points and the colours of the surface

Lossau


Transparent Points


Transparent Points

Starting point for library activities

„What scientists/scholars really need …“

- Comprehensive access to all relevant information sources, if possible from their desktops
- Access to specific editions of ressources (e.g. Historians, Philologists)
- Intuitive tools and instruments (software services) to work with documents and data (analysis, annotation, filtering, sequencing)
- Quality, timely dissemination (publishing) of research results
- Long-term access to research results
- TIME to research!

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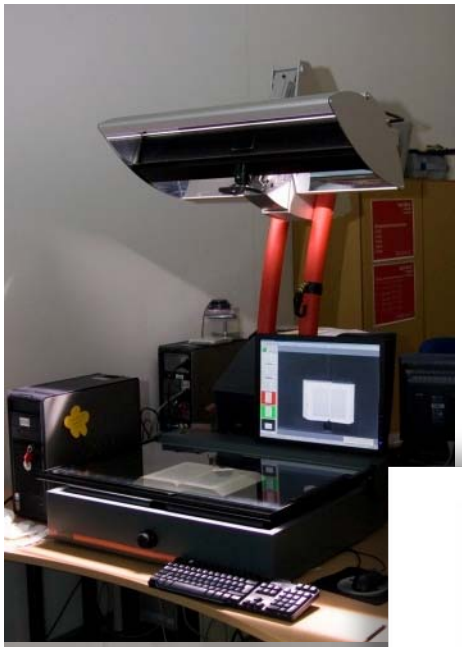
⇨Roles of (research) libraries

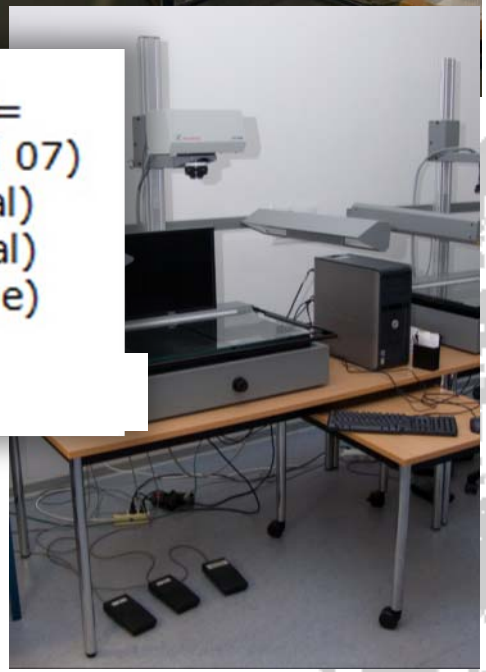
1. Guarantee open access to scientific information
2. Secure scholary and cultural heritage and make it worldwide accessible
3. Organise, structure and network knowledge on the web
4. Secure long-term access to knowledge, incl. digital ressources
5. Act as „trendscouts“ and build up competence centres for research information infrastructures

The Göttingen Digitisation Centre (GDZ)



3 Tischscanner (A2, 300ppi Farbe=
1 Scanroboter (A3, 300ppi, ab Jul 07)
1 Buchscanner (A3, 600ppi bitonal)
2 Tischscanner (A3, 600ppi bitonal)
1 Kartenscanner (A0, 600ppi Farbe)
1 Grazer Buchwippe

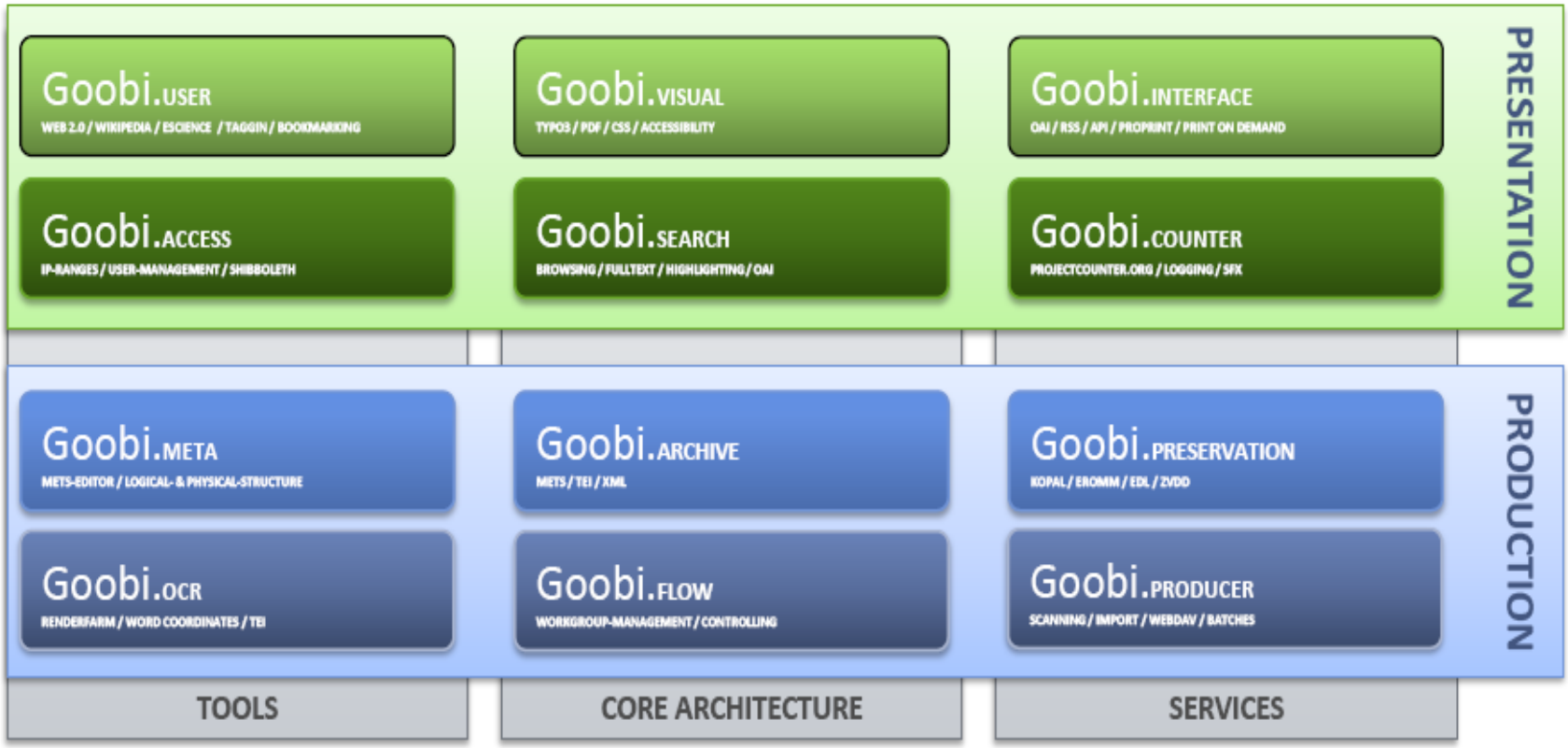
Plus 1 Treventus Scan-Roboter



Efficient workflow: the basis of mass digitisation

- Initial Development of SUB Göttingen, now partnership with the SLUB Dresden
- More than 25 libraries want to re-use GOOBI, incl. Staatsbibliothek Berlin
- Technical information
  - Web based
  - Written in Java
  - Unicode encoding
  - Open source
  - Reusable for several scientific-workflow scenarios
  - METS based internal metadata schema (configurable)

Modular architecture of GOOBI



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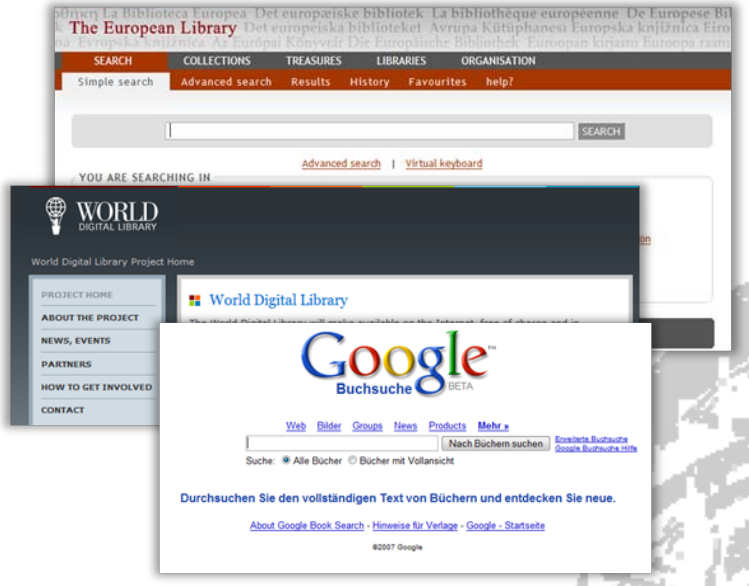
Why METS?

The new paradigm: connecting content

Past

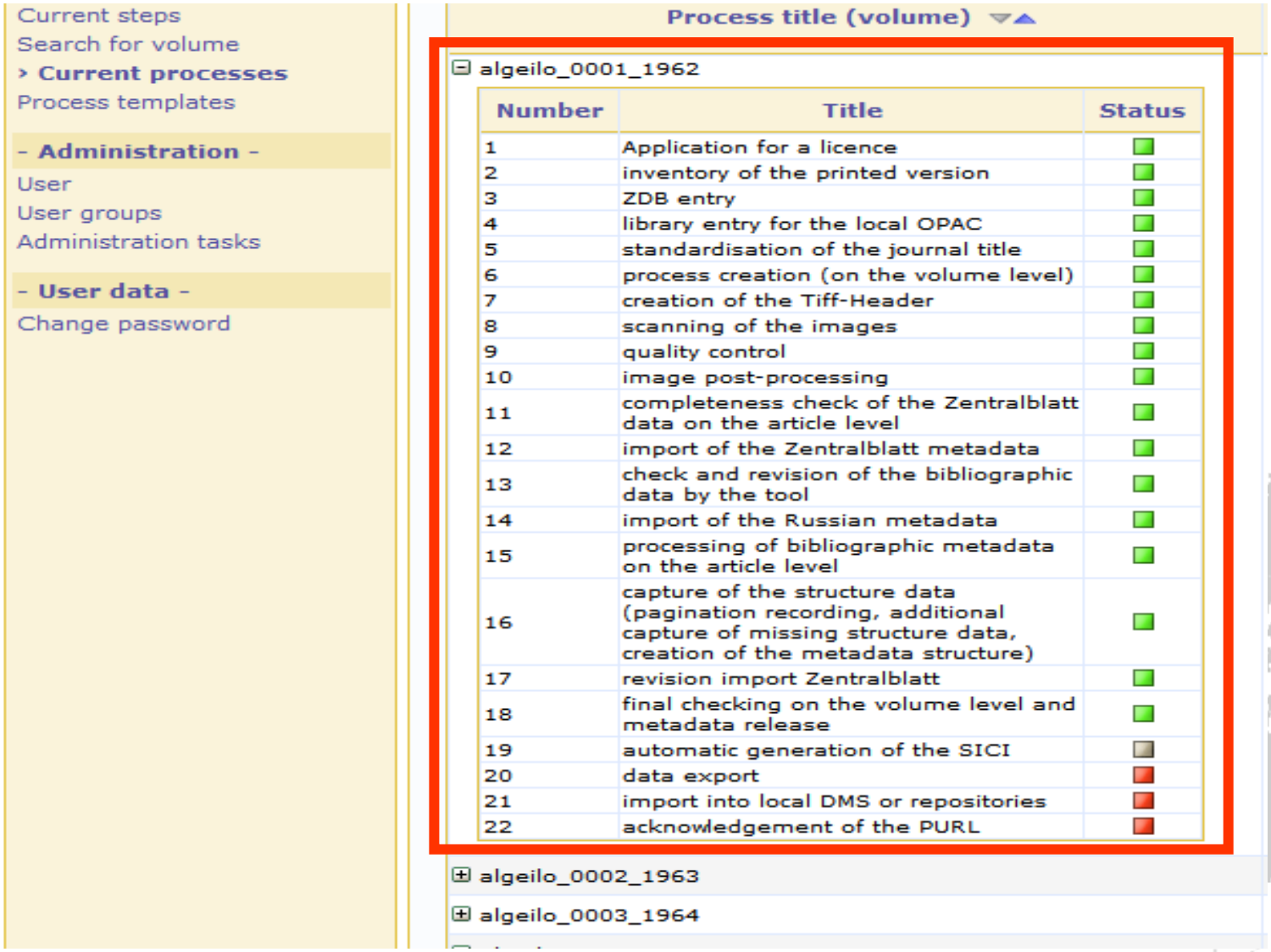
Project Websites
Repositories

Present

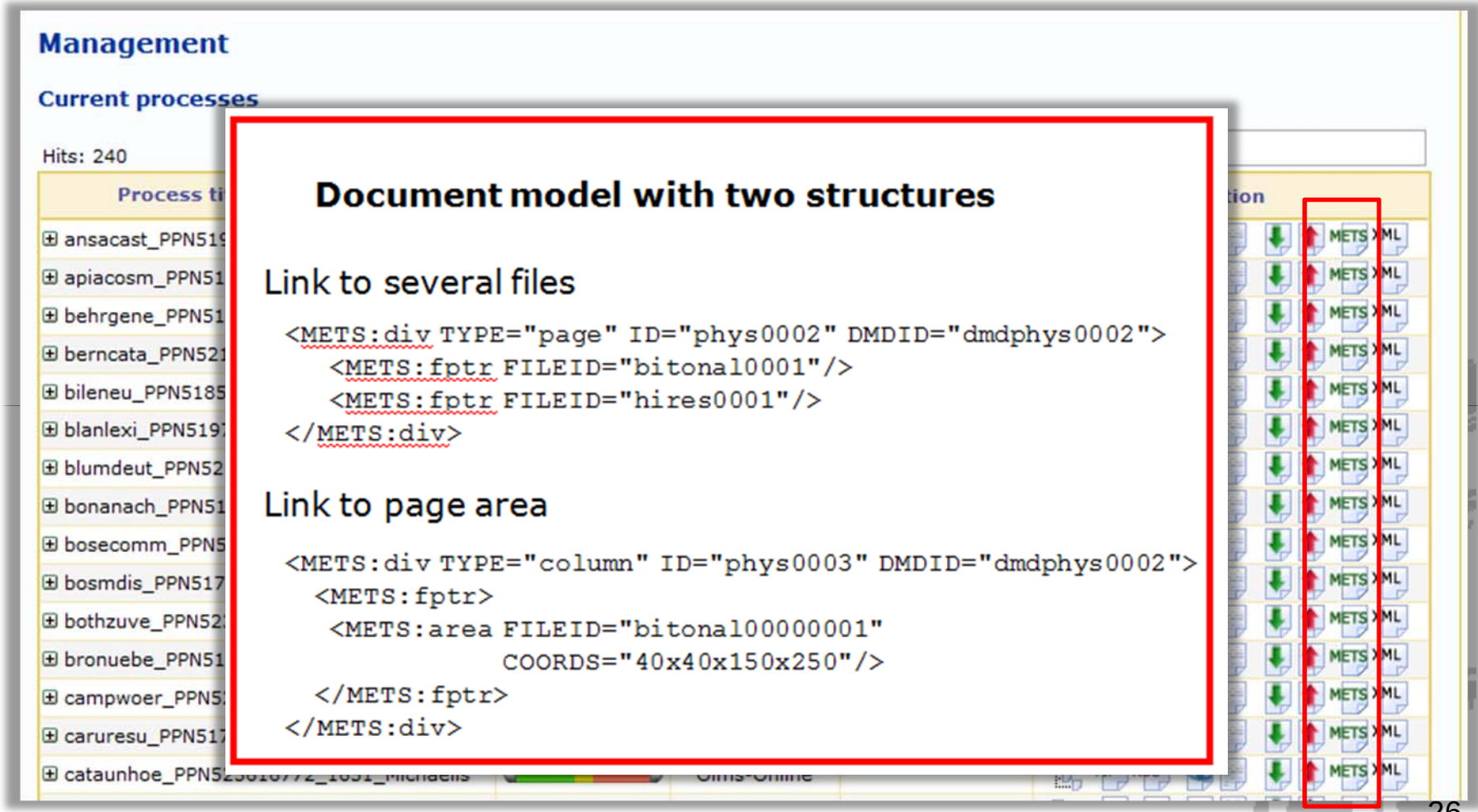


Portal Websites
Federated Search

Work flow status of every volume



Exporting METS



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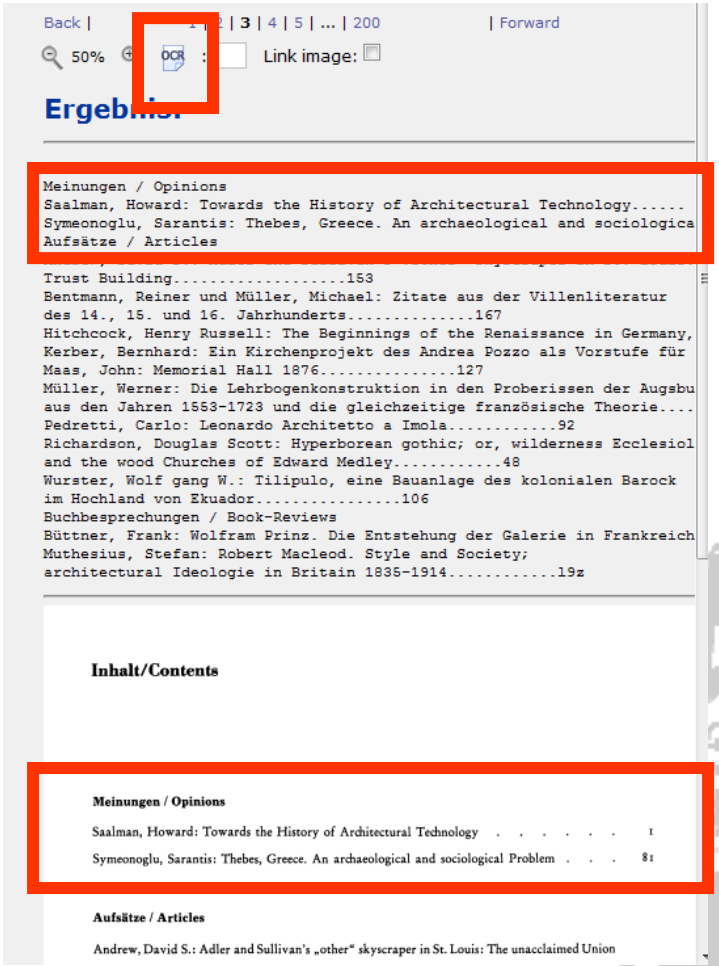
Integrated image viewer (AJAX driven)

OCR integration



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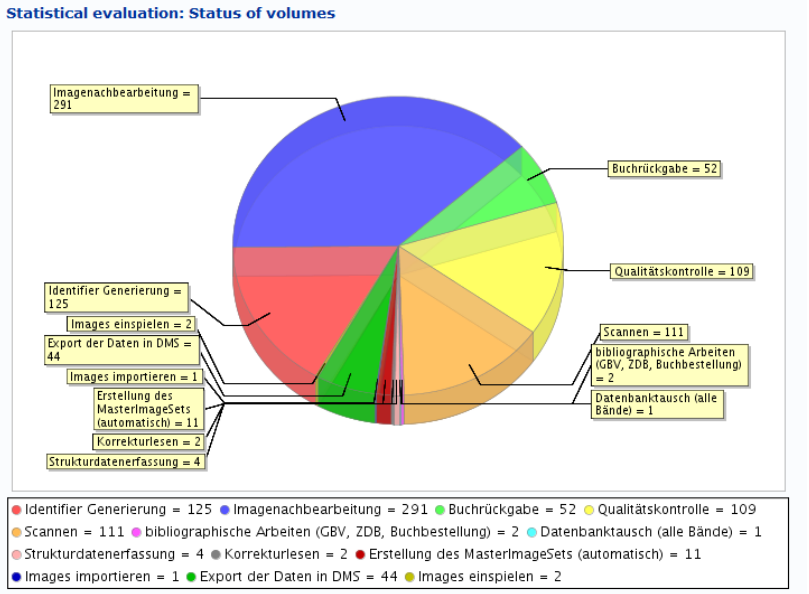
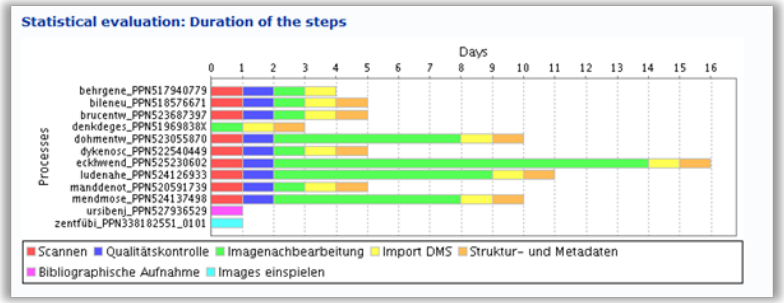
Statistics and controlling





Hits: 779

Process title (volume)	Status
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arch_PPN522561411_0002	
arch_PPN522561411_0003	
arch_PPN522561411_0004	
arch_PPN522561411_0005	
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arch_PPN522561411_0007	
arch_PPN522561411_0008	
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arch_PPN522561411_0013	
arch_PPN522561411_0014	
arch_PPN522561411_0015	
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arch_PPN522561411_0017	
arch_PPN522561411_0018	
arch_PPN522561411_0019	
arch_PPN522561411_0020	

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Presentation layer: TYPO 3 / Lucene

Customizable design and features

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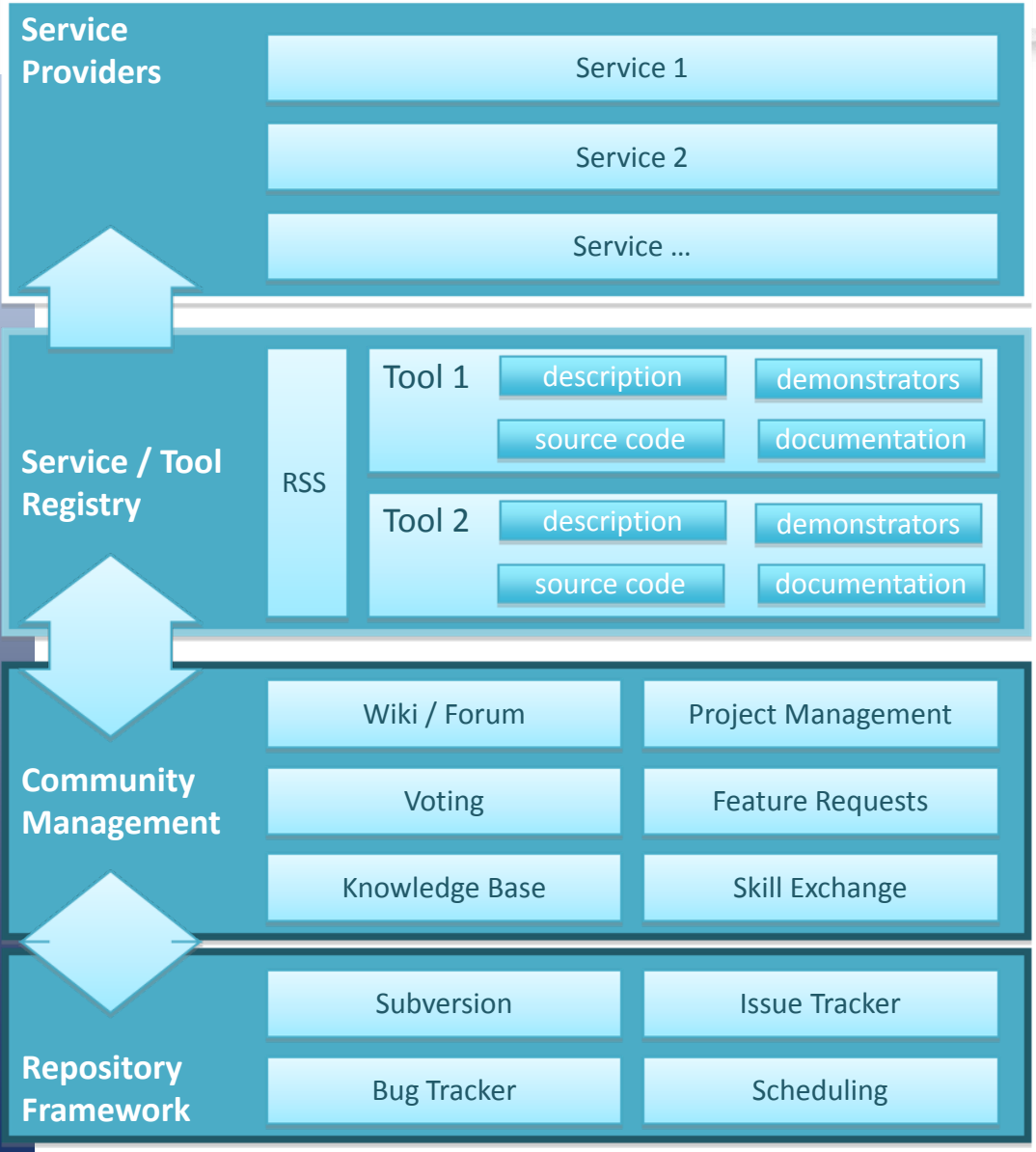
BIBFORGE

developinglibraries

Architecture



Open access and Digital Repository Networks: a new digital research infrastructure

Free and unrestricted access to sciences and human knowledge representation worldwide, incl. cultural heritage

Berlin Declaration, Oct/2003

⇨Requires an interoperable, trusted, long-term repository infrastructure

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Selected Activities and Projects

Open Access

- German Information Plattform www.open-access.net (Production)
- OA at Universities: Repositories, University Press (D) (Production)
- OAPEN (EU) (Project)
- PEER (EU) (Project)

Open Access - Infrastructures

- DRIVER (EU) (Production und Project)
- OA-Netzwerk, OA-Statistik (DINI, D) (Projects)
- DARIAH (EU) (Projekt)

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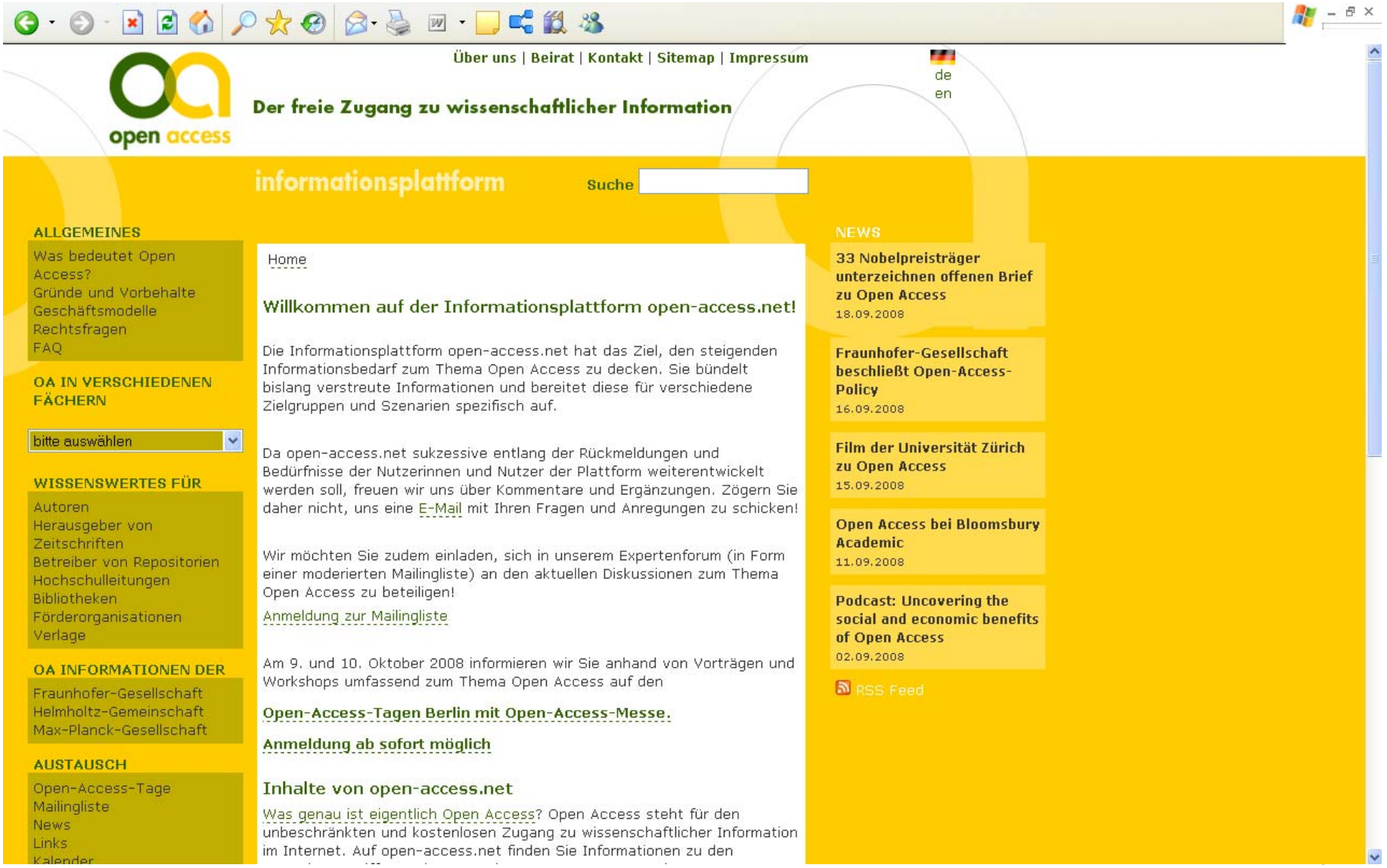
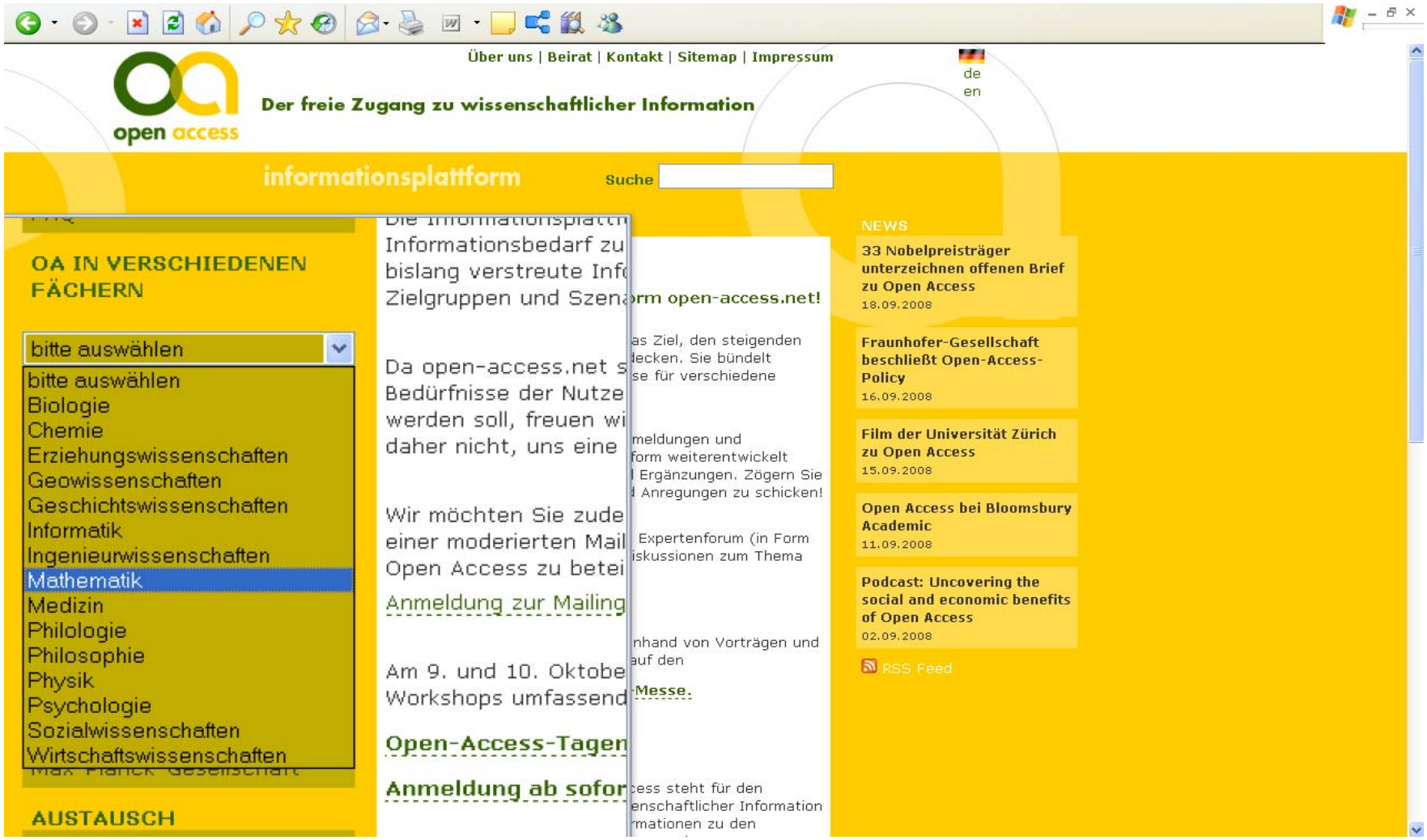
www.open-access.net



www.open-access.net



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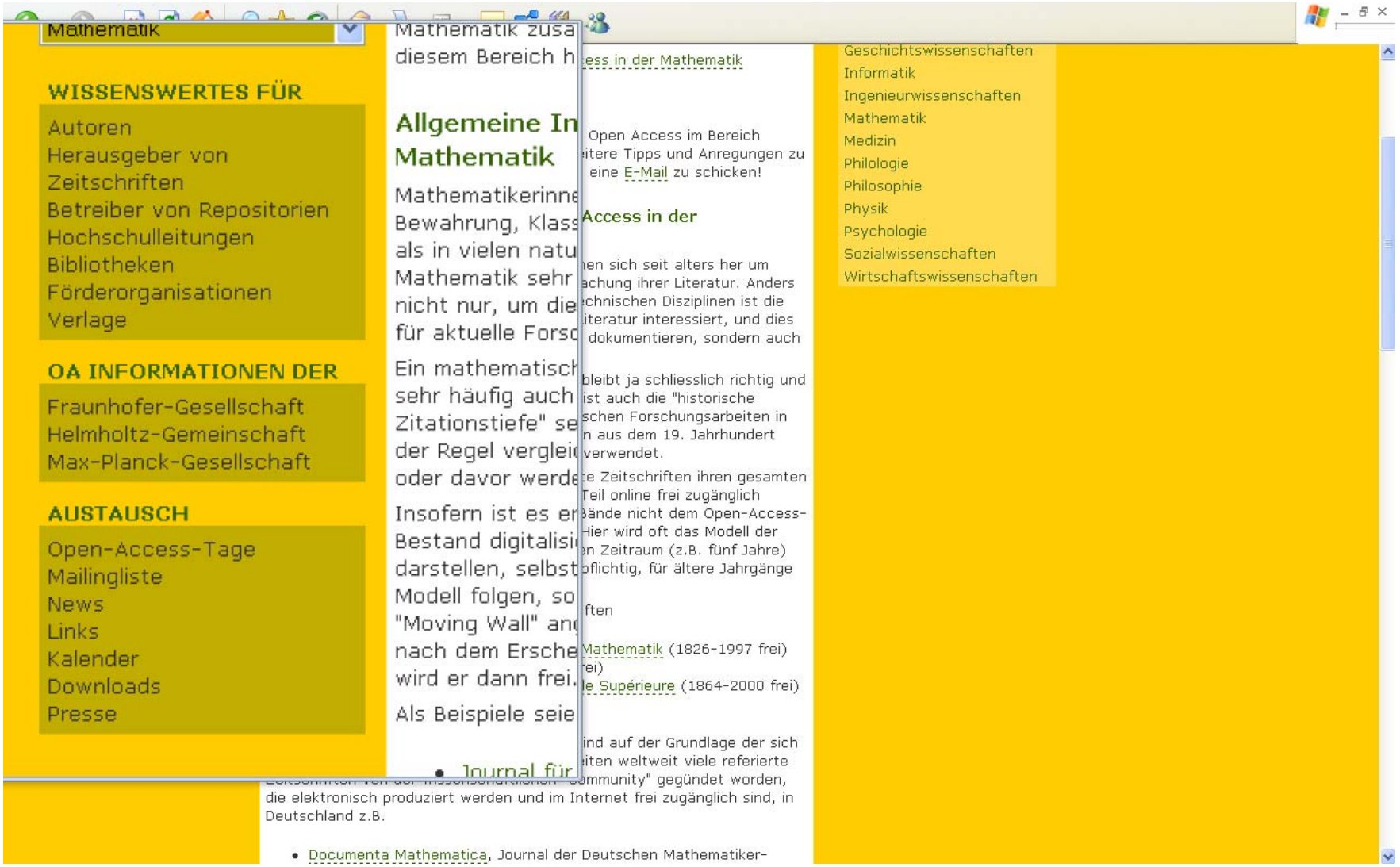

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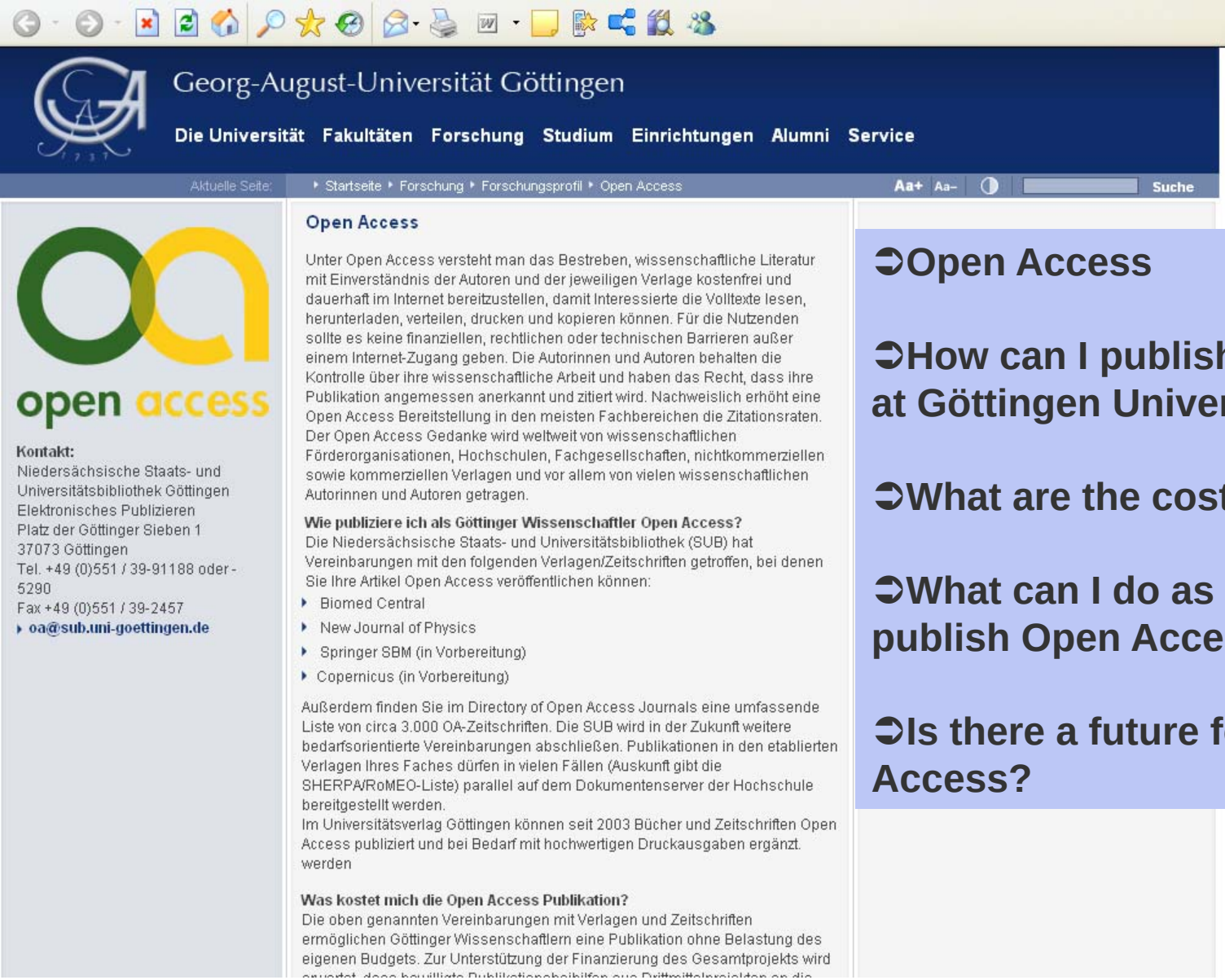


- Open Access
- How can I publish Open Access at Göttingen University?
- What are the costs involved?
- What can I do as author to publish Open Access?
- Is there a future for Open Access?

Göttingen University Press – an OA Publisher

Universitätsverlag Göttingen

Publikationen | Über uns | Herausgebergremium | Publizieren | Autorenhilfen | Kontakt | [english version]

Details

Universitätsverlag

Library Sciences

Greenberg, Jane and Wolfgang Klas (Ed.)

Metadata for Semantic and Social Applications

Proceedings of the International Conference on Dublin Core and Metadata Applications, 22-26 September 2008

Metadata is a key aspect of our evolving infrastructure for information management, social computing, and scientific collaboration. DC-2008 will focus on metadata challenges, solutions, and innovation in initiatives and activities underlying semantic and social applications. Metadata is part of the fabric of social computing, which includes the use of wikis, blogs, and tagging for collaboration and participation. Metadata also underlies the development of semantic applications, and the Semantic Web — the representation and integration of multimedia knowledge structures on the basis of semantic models. These two trends flow together in applications such as Wikipedia, where authors collectively create structured information that can be extracted and used to enhance access to and use of information sources. Recent discussion has focused on how existing bibliographic standards can be expressed as Semantic Web vocabularies to facilitate the ingration of library and cultural heritage data with other types of data. Harnessing the efforts of content providers and end-users to link, tag, edit, and describe their information in interoperable ways ("participatory metadata") is a key step towards providing knowledge environments that are scalable, self-correcting, and evolvable. DC-2008 will explore conceptual and practical issues in the development and deployment of semantic and social applications to meet the needs of specific communities of practice.

Verzeichnis
- nach Autor
- nach Fachgebiet
- nach Reihe
- nach Titel

zur Startseite

Suche

Ihr Warenkorb ist leer.

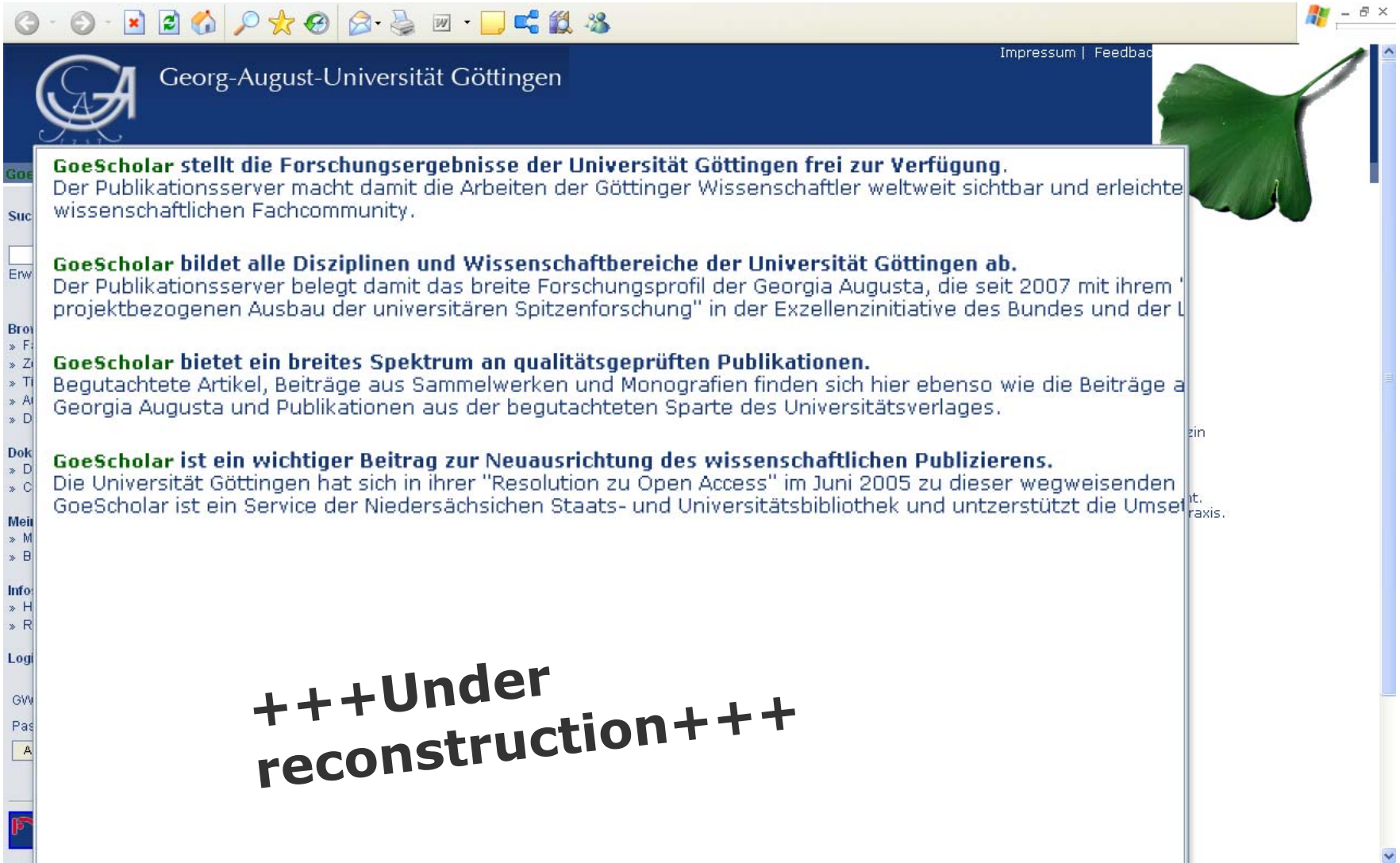
Neuerscheinungen:

Greenberg, Jane and Wolfgang Klas (Ed.)

Metadata for Semantic and Social Applications

Papke, Renate

GoeScholar – The institutional repository of Göttingen University



GoeScholar – The institutional repository of Göttingen University

open access

GoeScholar – The institutional repository of Göttingen University

open access

GoeScholar – The institutional repository of Göttingen University

open access

DRIVER's Vision

All research institutions in Europe and worldwide make all their research publications openly accessible through institutional repositories

General Information: DRIVER II

- Duration: 24 months
- Budget: 2.7 m EUR
- Timeplan: 12/'07 -11/'09
- Main Deliverables:
  - Digital Repository Infrastructure
  - European Digital Repository Confederation
- Funded by the European Commission, "Research Infrastructure" Unit, FP 7
- Consortium Partners
  - Univ.of Athens (GR)
  - Univ. of Bielefeld (GE)
  - CNR-ISTI (IT)
  - STICHTING SURF (NL)
  - Univ. of Nottingham (UK)
- cont…
  - Univ. of Bath (UK)
  - Univ. of Warszawski (PO)
  - Univ. of Gent (BE)
  - Univ. of Goettingen (GE)
  - Danish Technical University (DK)
  - Universidade do Minho (PT)
  - Narodna in univerzitetna knijznica (SLO)

CAPACITIES

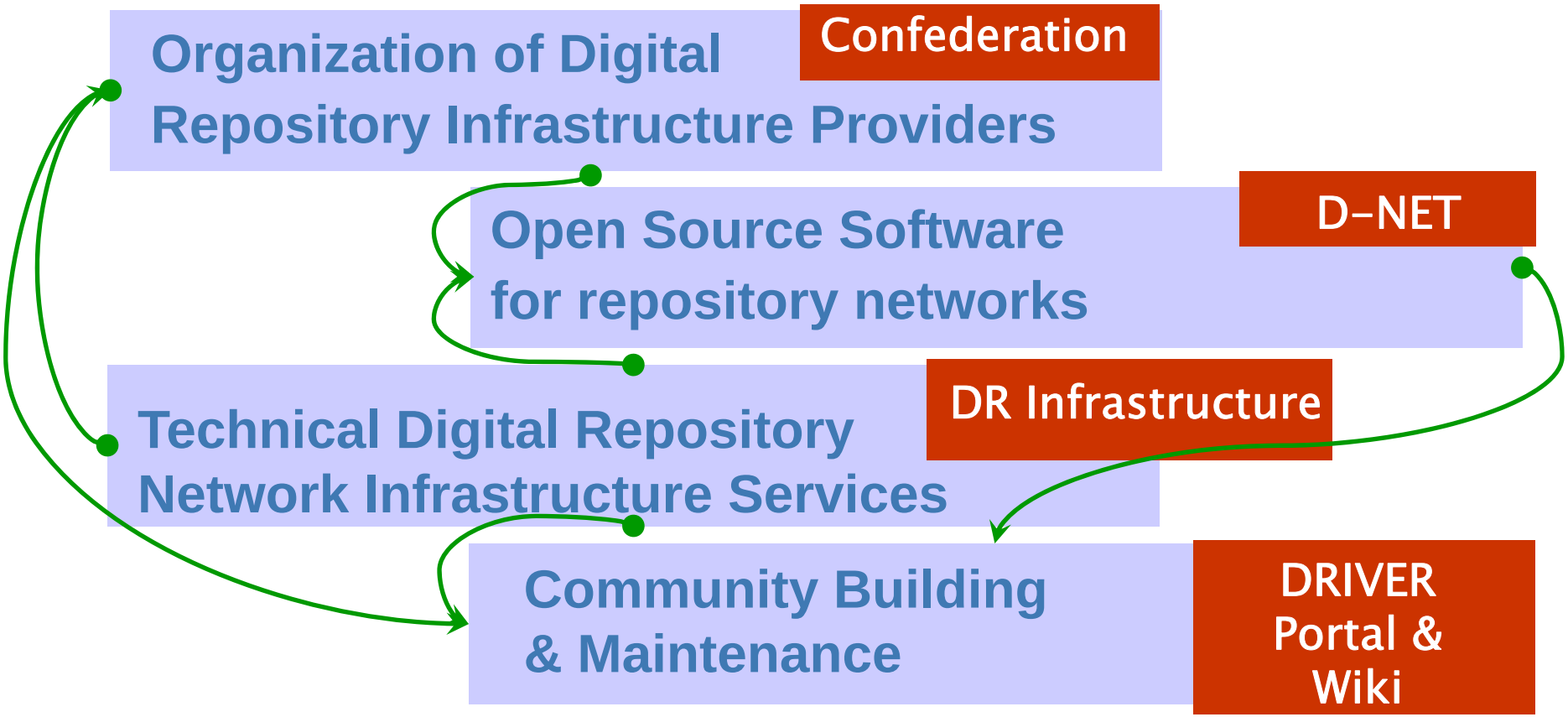
e-infrastructure

driver

DRIVER History

- DRIVER (I), started 1 June 2006, ended 30 November 2007
- DRIVER II, started 1 December 2007, ends 30 November 2009
- Recent event: DRIVER Summit 16/17 January 2008, Göttingen

DRIVER II activity areas and outcomes

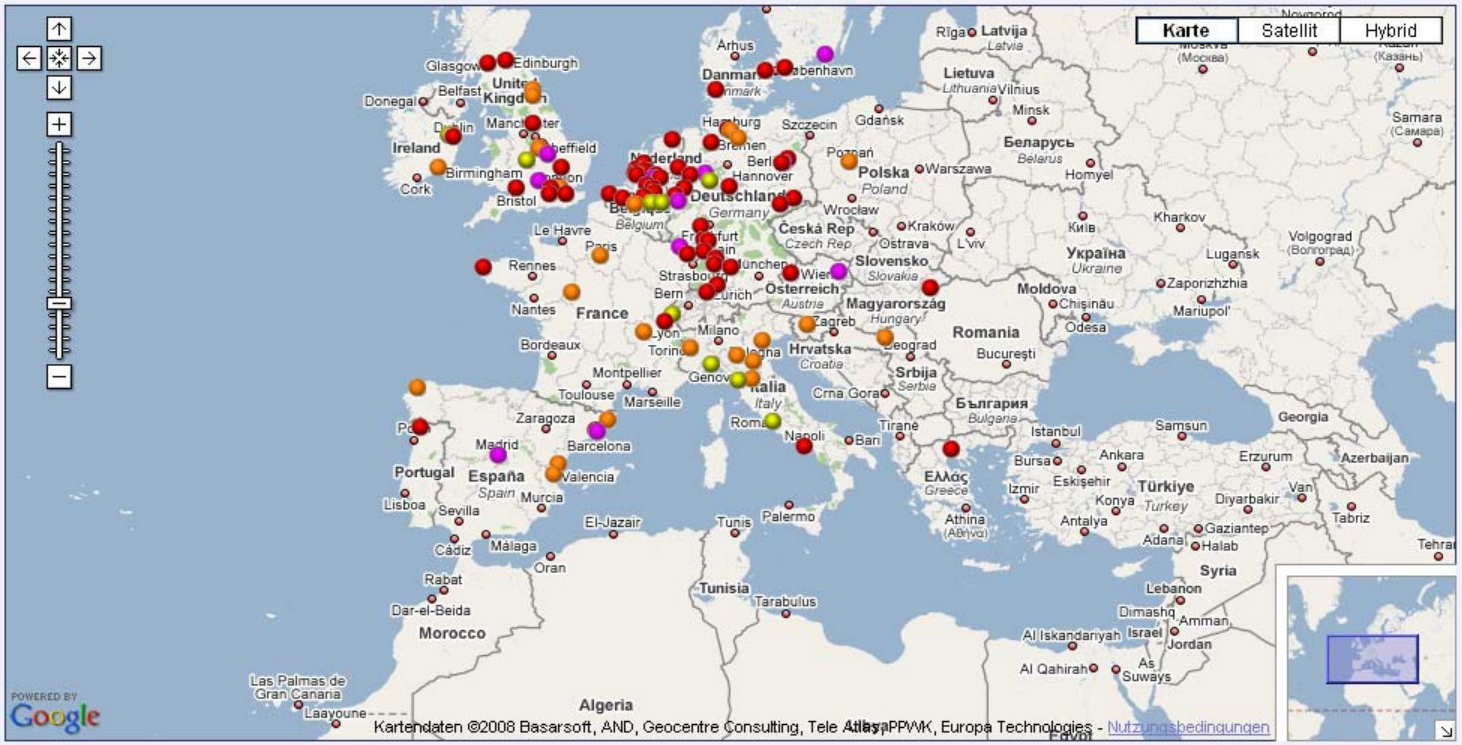


Digital Repositories Infrastructure Vision for European Research

Number of records: < 50 | 50 - 500 | 500 - 1000 | > 1000

Repositories

- IT Alma Mater Digital Library
- IT AperTo
- FR Archimer, Archive Institutionnelle de l'Ifremer
- IT Archivio Eprints Universita di Firenze
- ES Archivo Digital UPM
- GR Aristotle University of Thessaloniki
- DE ask23 repository (lkw, hfbk hamburg, germany)
- NL AUP publications
- CH Bibliotheque Numerique RERO DOC
- DE BieSOn - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)
- UK Birkbeck ePrints
- UK Bristol Repository of Scholarly Eprints (ROSE)
- UK British Library Research Archive
- SE DALEA - Högskolan Dalarnas elektroniska arkiv
- HU Debreceni Egyetem elektronikus Archivumanak (DEA)
- DE DESY Publication Database
- DE DIPP NRW
- NL Dissertations of the Universiteit



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e-infrastructure

Digital Repositories Infrastructure Vision for European Research

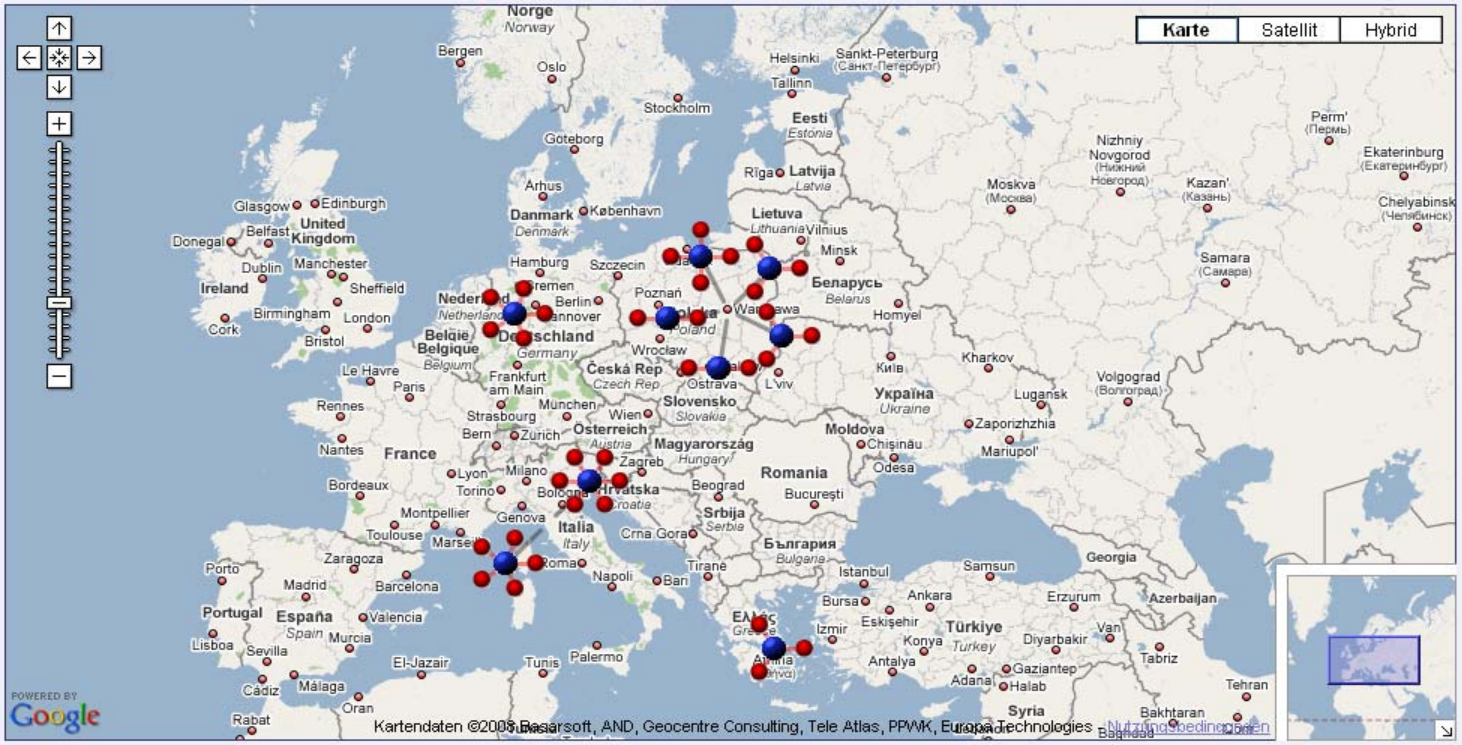
Home | Repositories | Network | Collections

Show Map

Legend: Host, Node

Hosting Nodes

- node1.p.driver.research-infrastructures.eu (146.48.87.214)
  - 8002 (IS_Store)
  - 8003 (ResultSet)
  - 8001 (IS_Registry)
  - 8007 (IS_LookUp)
  - 8000 (IS_SN)
  - 8009 (IS_UI, CS_UI)
- node2.p.driver.research-infrastructures.eu (146.48.87.215)
  - 8003 (ResultSet)
  - 8009 (IS_UI, CS_UI)
  - 8010 (CS_Engine)
  - 8008 (MS_RO)
  - 8180 (A2)
- node3.p.driver.research-infrastructures.eu (146.48.87.216)
  - 8003 (ResultSet)
  - 8006 (Publisher)
  - 8180 (Search, Recommendation, UserInterface, Community, UserProfiling)
- node9.p.driver.research-infrastructures.eu (212.87.15.95)
  - 8003 (ResultSet)
  - 8004 (TextEngine)
  - 8180 ()



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https://admin.driver.research-infrastructures.eu/IS/NetworkMap#network

Internet

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The DRIVER Portal

www.driver-community.eu

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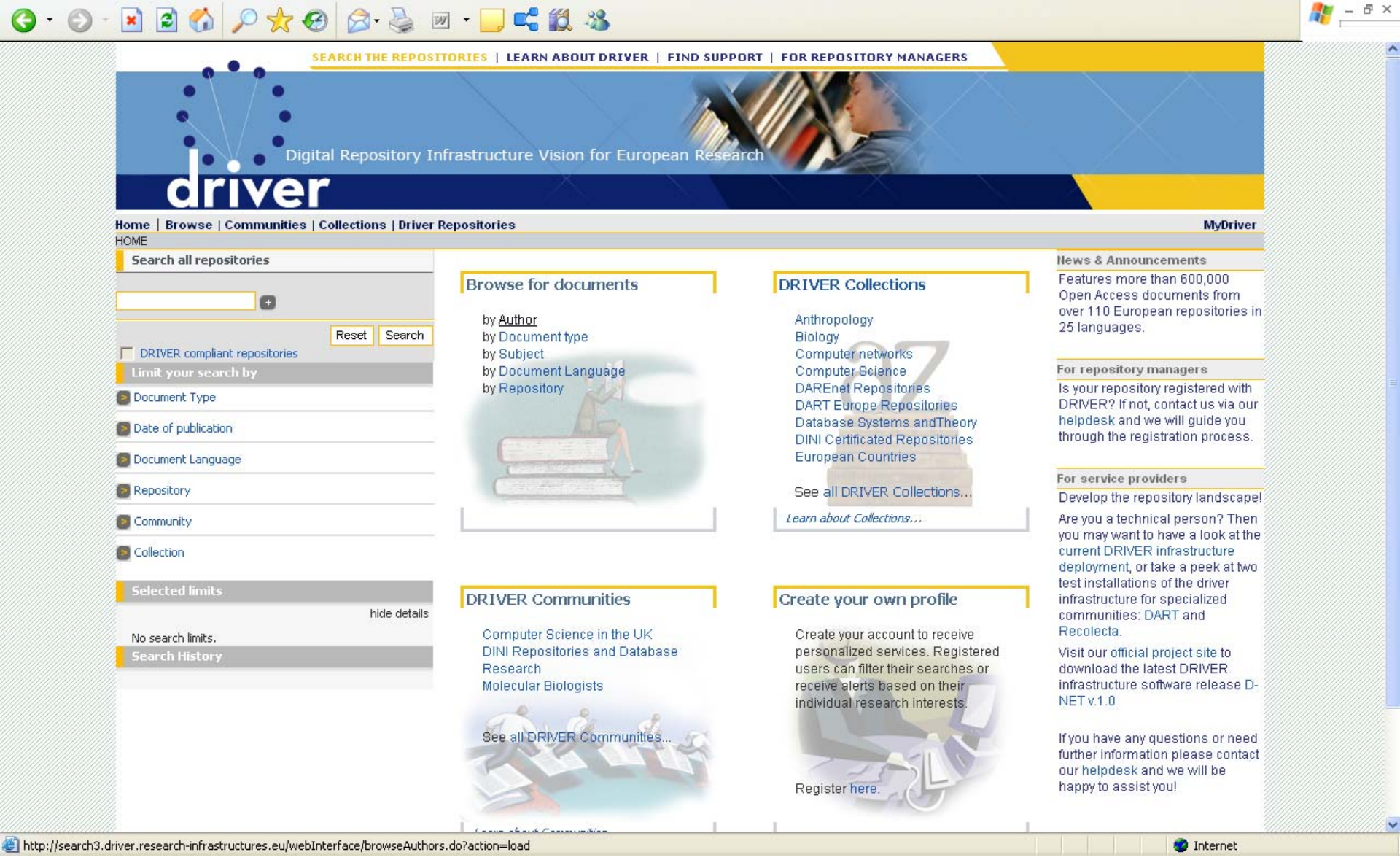
e-infrastructure

driver


SEARCH THE REPOSITORIES | LEARN ABOUT DRIVER | FIND SUPPORT | FOR REPOSITORY MANAGERS
Digital Repository Infrastructure Vision for European Research
driver
Home | Browse | Communities | Collections | Driver Repositories
MyDriver
HOME
Search all repositories
Reset
Search
DRIVER compliant repositories
Limit your search by
Document Type
Date of publication
Document Language
Repository
Community
Collection
Selected limits
hide details
No search limits.
Search History
Browse for documents
by Author
by Document type
by Subject
by Document Language
by Repository
DRIVER Collections
Anthropology
Biology
Computer networks
Computer Science
DAREnet Repositories
DART Europe Repositories
Database Systems andTheory
DINI Certificated Repositories
European Countries
See all DRIVER Collections...
Learn about Collections...
DRIVER Communities
Computer Science in the UK
DINI Repositories and Database Research
Molecular Biologists
See all DRIVER Communities...
Create your own profile
Create your account to receive personalized services. Registered users can filter their searches or receive alerts based on their individual research interests.
Register here.
News & Announcements
Features more than 600,000 Open Access documents from over 110 European repositories in 25 languages.
For repository managers
Is your repository registered with DRIVER? If not, contact us via our helpdesk and we will guide you through the registration process.
For service providers
Develop the repository landscape!
Are you a technical person? Then you may want to have a look at the current DRIVER infrastructure deployment, or take a peek at two test installations of the driver infrastructure for specialized communities: DART and Recolecta.
Visit our official project site to download the latest DRIVER infrastructure software release D-NET v.1.0
If you have any questions or need further information please contact our helpdesk and we will be happy to assist you!
http://search3.driver.research-infrastructures.eu/webInterface/browseAuthors.do?action=load
Internet

- Home
- Information for…
- Learn about…
- Mentoring Service
- News & Events
- FAQ
- Links & Publications
- DRIVER Wiki
- Contact Us

Home

Welcome to the DRIVER Support website

Here you can access information and support relating to Open Access and digital repositories. Digital repositories can help make research information more widely available, more widely used, and improve the process of research itself. Information of interest to specific user groups is available as well as information about the DRIVER project.

DRIVER II, a project funded by the 7th Framework Programme of the European Commission, is the continuation of the DRIVER project. DRIVER II will extend the geographical coverage step-by-step and will move from a test-bed to a production-quality infrastructure. As part of DRIVER II this site will be revised to reflect new developments and the wider remit of the DRIVER II project. D-NET, a development of DRIVER II is nearing release and details will shortly be available from theLearn About DRIVER website.

This site holds details on the state of development of repositories in different European countries and how you can join this growing European network.

You may share information and news from your own country via the DRIVER Wiki and can benefit from the experience of others, and share your experiences, through the Mentor Service.

You can also want to suggest events or announce news on this site that other visitors may find useful.

For access to DRIVER Tools, DRIVER Search and to access and re-use the DRIVER Infrastructure please go to the DRIVER Portal http://www.driver-community.eu/.

Last updated: 17-Jun-2008

CAPACITIES

Internet

CAPACITIES e-infrastructure

driver

driver wiki
DRIVER Portal
Recent Changes - Search: Go
DRIVER Support Web
DRIVER Wiki
General Topics
DRIVER Guidelines
European Union
Non-EU Europe
Rest of the World
Restricted Pages
Content Network Group
PmWiki Software
Basic Editing
WikiSandbox
Driver Wiki Admin
Powered by PmWiki
Main /
View Edit History Print
Open Access in the European Union
Austria
Belgium
Bulgaria
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Ireland
Italy
Latvia
Lithuania
Luxemburg
Malta
Netherlands
Poland
Portugal
Romania
Slovakia
Slovenia
Spain
Sweden
United Kingdom
The DRIVER Guidelines were developed based on the DINI certification in Germany and DARE guidelines in the Netherlands with requirements specific to those networks removed. DRIVER partners involved in other repository networks, such as HAL in France and SHERPA in the UK, provided additional input to ensure that the DRIVER Guidelines are suitable for implementation by the entire European repository community. The DRIVER Guidelines are available from the Support website. A Wiki page has been set up for the DRIVER Guidelines where you may contribute.
The DRIVER "Inventory study into the present type and level of OAI compliant digital repository activities in the EU is now available. The study which was managed by SURF, surveyed repository managers and associated institutional personnel on a range of issues relating to Open Access and repository development.
Of the 27 EU countries, seven appear to have no institutional repositories, five are in the early stages of developing repositories while the remaining 15 countries have, to varying degrees, established institutional repositories. A separate wiki has been set up for comments relating to this study.
Edit - History - Print - Recent Changes - Search
Page last modified: 02-Jun-2008, at 15:25
Fertig
Internet

Open Access in Portugal

Repositories | Organisations | Projects | Journals | Copyright | Funding | Publishers | News | Other

Open Access Repositories

The Open Access Repositories activities in Portugal are currently undergoing a strong momentum as the reflex of the growing interest and involvement of the Portuguese academic and scientific community in the questions related with Open Access to scientific literature.

The first initiatives were from Minho University with the creation of RepositóriUM - its institutional repository (October 2003) and the subsequent definition of a pioneering self-archiving policy (January 2005).

But in 2006 the opening of another repository on production stage (ISCTE repository in October 2006), the Open Access Declaration issued by CRUP (the Conference of Rectors of the Portuguese Universities) (November of 2006), the very successful second Open Access Conference (with more than 150 participants) held in Minho University, as well as other initiatives for creation of institutional repositories in diverse national institutions, fully illustrate the high degree of interest and development work that has been settled in Portugal.

There are 16 public universities in Portugal and combined with smaller private universities that are focused mainly on teaching, the number increases up to 22 universities. The Conference of Rectors of the Portuguese Universities, consisting of the rectors of the above-mentioned 16 public universities, has signed the Berlin Declaration on Open Access recommended that all universities build an institutional repository and design a policy for self-archiving.

At the time of writing, in Portugal, there are 4 institutional repositories (IRs) in a production stage, 3 in a testing stage, 1 in installation stage and several others starting the first steps towards their creation. The IRs already in production stage, combined, archive about 8700 documents (but 6700 are from just one repository).

The main driving factor for engaging with the development of IRs is the increasing awareness of the open access movement and the need to showcase the research outputs are mentioned. On the contrary, the main inhibitors are the low level of awareness on Open Access in some scientific areas and institutions and the doubts and fears with regard to the copyright situation for published research output.

How can a single repository become a member of the DRIVER community?

- The concept of DRIVER sees national communities as the basis and as natural partners for the European repository network
- Contact the DRIVER Wiki and find out about your national contact point(s) (“correspondents”) to the DRIVER community
  - Become a member of your existing national community OR
  - Support the building of a national community within your country (see also *DRIVER Mentoring Service*)
- In case there is no correspondent: register your interest on the DRIVER website to
  - Become a member of the DRIVER community

How does DRIVER relate to national repository communities?

- National communities are usually represented by country “correspondents”
  - One institution or a group of institutions takes responsibility to build a national repository community (like DARENet-NL, SHERPA-UK, OA-Netzwerk-GE, RECOLECTA-ES, HAL-FR)

Country “correspondents” …

  - Maintain the national repository information on the DRIVER Wiki
  - Organise repository events in their countries
  - Translate repository guidelines and other relevant information into national languages
  - Build up national data aggregators, clean data, can offer additional services

How does DRIVER relate to international repository communities?

- DRIVER sees it's mission as
  - Catalyst for a global repository infrastructure
  - Develop and maintain the European repository infrastructure node
- DRIVER liaises already with institutions and initiatives from the U.S., Latin America, China, India and Africa
- DRIVER collaborates with eIFL, the library support organisation for developing countries
- DRIVER liaises with the *Object Reuse and Exchange* (ORE) project and SPARC, U.S.

Where can I get more information about DRIVER?

- Go to the DRIVER Portal: www.driver-community.eu
- Contact the DRIVER Helpdesk, helpdesk@driver-support.eu

Upcoming event:

Baltimore, 17/18 November 2008; SPARC US, Japan and Europe

CAPACITIES

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driver

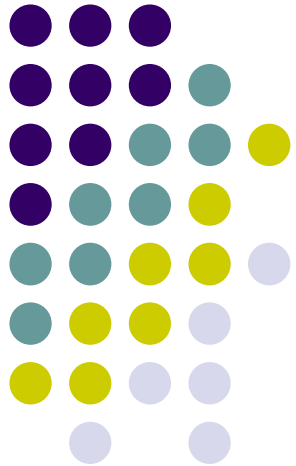
Publishing and the Ecology of European Research (PEER)

*EC e*Content*plus*

Vorgesehener Start: 1. September 2008

Laufzeit: 3 Jahre

Partner: International STM Headoffice, ESF, Universität/SUB Göttingen, MPG/MPDL, INRIA, SURF, Universität/UB Bielefeld



Purpose of PEER

- Publishers and research community collaborate
- Develop an “observatory” to monitor the impact of systematically depositing stage-two outputs on a large scale
- Gather hard evidence to inform future policies

Objectives

- Determine how large-scale deposit of stage-two outputs will affect journal viability
- Determine whether it increases access
- Determine whether it affects the broader ecology of European research
- Determine the factors affecting readiness to deposit and associated costs
- Develop model(s) to show how traditional publishing can coexist with self-archiving

Depositing activities

- 15 major STM publishers
- Ca. 300 Journal
- Approx. 20,000 articles per year (~60,000 articles for the project)
- 50% of the articles: Publisher > Repositories
- 50% of the articles: Author > Repositories

www.oapen.net

European University Presses take the initiative to develop an Open Access model for peer reviewed books in Humanities and Social Sciences

eContentplus EC co-funded project

Duration: 30 months

Start: September 1, 2008

Partners: Amsterdam University Press, Georg-August-Universität Göttingen, Museum Tusculanum Press, Manchester University Press, Presses Universitaire de Lyon, Firenze University Press, University of Amsterdam, University of Leiden

Website: www.oapen.net

OAPEN

OPEN ACCESS PUBLISHING IN EUROPEAN NETWORKS

Home Introduction News About OAPEN Partners Join Contact Links

Open Access Publishing in European Networks

OAPEN is a project in Open Access publishing for humanities monographs. The Open Access movement has developed rapidly in the sciences and in journal publishing. The consortium of University-based academic publishers who make up OAPEN believe that the time is ripe to fully explore the possibilities of Open Access in the humanities and social sciences.

The OAPEN partners all currently have some involvement in the Open Access movement, and you are encouraged to view their pages on this site and on their own sites.

It is expected that this project will find useful, exciting and beneficial ways of publishing scholarly work in Open Access, allowing access to important peer reviewed research from across Europe.

The partners
Amsterdam University Press
Georg-August Universitat Gottingen
Museum Tusculanum Press
Manchester University Press
Presses Universitaires de Lyon
Firenze University Press
University of Amsterdam
Leiden University

Key Objectives

- **Creating the largest freely available collection of current peer reviewed books in European languages in various fields of HSS**
- To develop and promote an Open Access (OA) publication model for primary publications
- To engage all stakeholders in the publication process
- To build a network around OA book publishing
- To develop common funding models
- To adopt common standards and metadata to improve retrievability and visibility of HSS publications

Open Access
Publishing in European Networks

Expected Results

- **Publication Model**
  - OA funding model for e-books based on scientific studies (user needs, publication cultures, OA models)
  - Services and business plan for OA books and services
  - Contract for licensing content
  - Agreement for OAPEN partnerships
- **Publishing Platform**
  - dedicated to monograph content in HSS in all its dimensions (text, multimedia, data, reader interaction)
  - supplemented by tools and services for e-publication, digital printing (PoD), marketing and digitization
- **Networked Online-Library**
  - Aggregated collection of OA books
  - Multi-lingual search

Open Access
Publishing in European Networks

Virtual Research Environments & e-Humanities

Textgrid: Pioneering work through building of Virtual Research Environments for Humanities

A collaborative effort of scholars, libraries, computer scientists and language experts

Two main product groups:

- *TextGridRep* (ressources such as texts or dictionaries)
- *TextGridLab* (tools and workbench)

- TextGrid I = 10/2005 – 03/2009
- TextGrid II = extension proposal submitted

Funded by the BMBF, coordinated by the SUB Göttingen

Bundesministerium für Bildung und Forschung

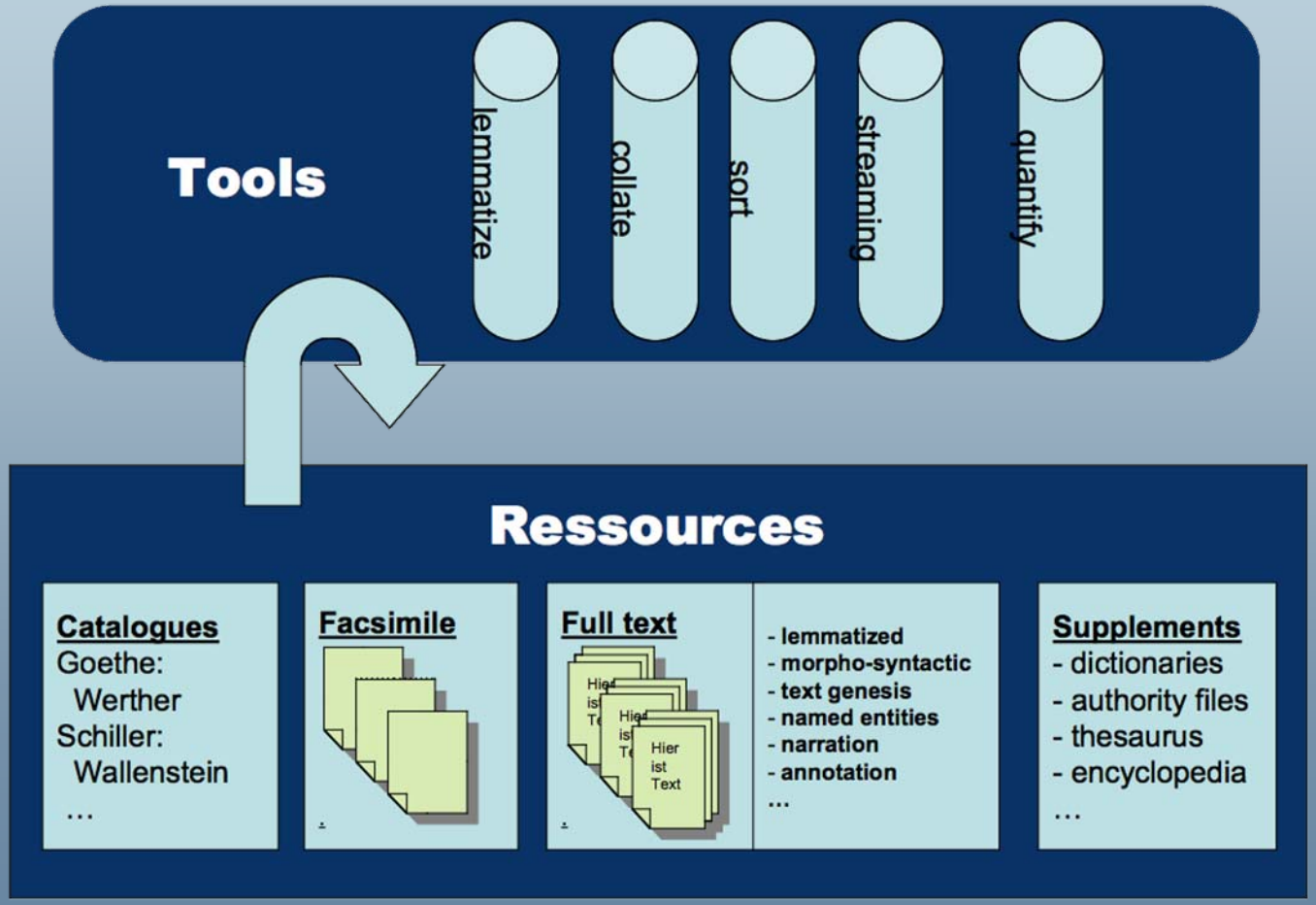
Ein Projekt im D-GRID

TEXT GRID

TextGrid in View: Goals

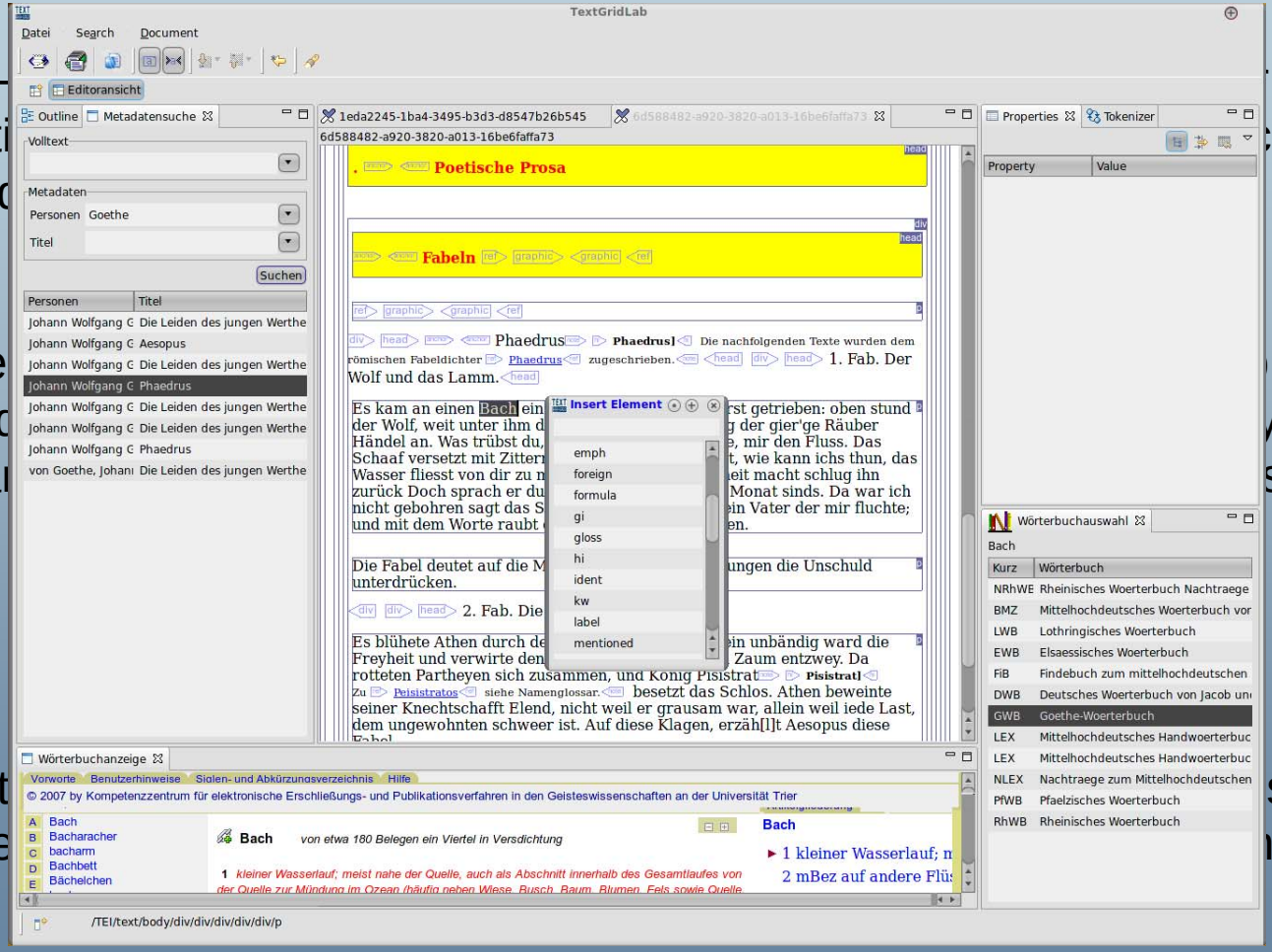
- Establishment of a virtual research infrastructure
- TextGrid: a generic platform for scientific text data processing
- Service Grid (toolbox for collaborative work)
- Data Grid (virtual archive for long-term data preservation)

Philological View: TextGrid Tools and Services

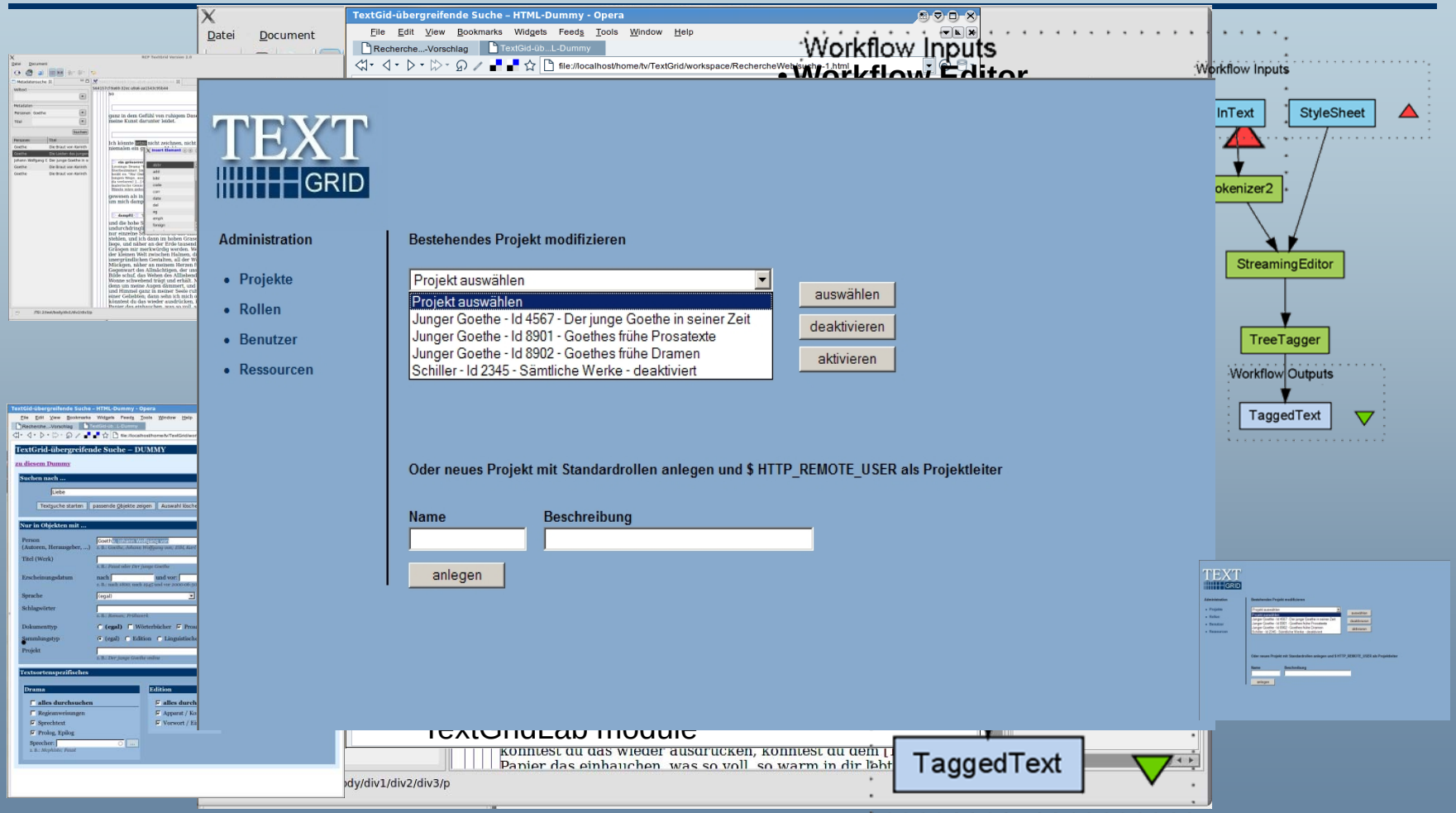


TextGrid in View: TextGridLab

- Eclipse- creating integrati ces a unifie
- Intuitive and way of c ystem views a sability menus
- Open st s interope e



TextGrid in View: TextGridLab



TextGrid in View: Tasks

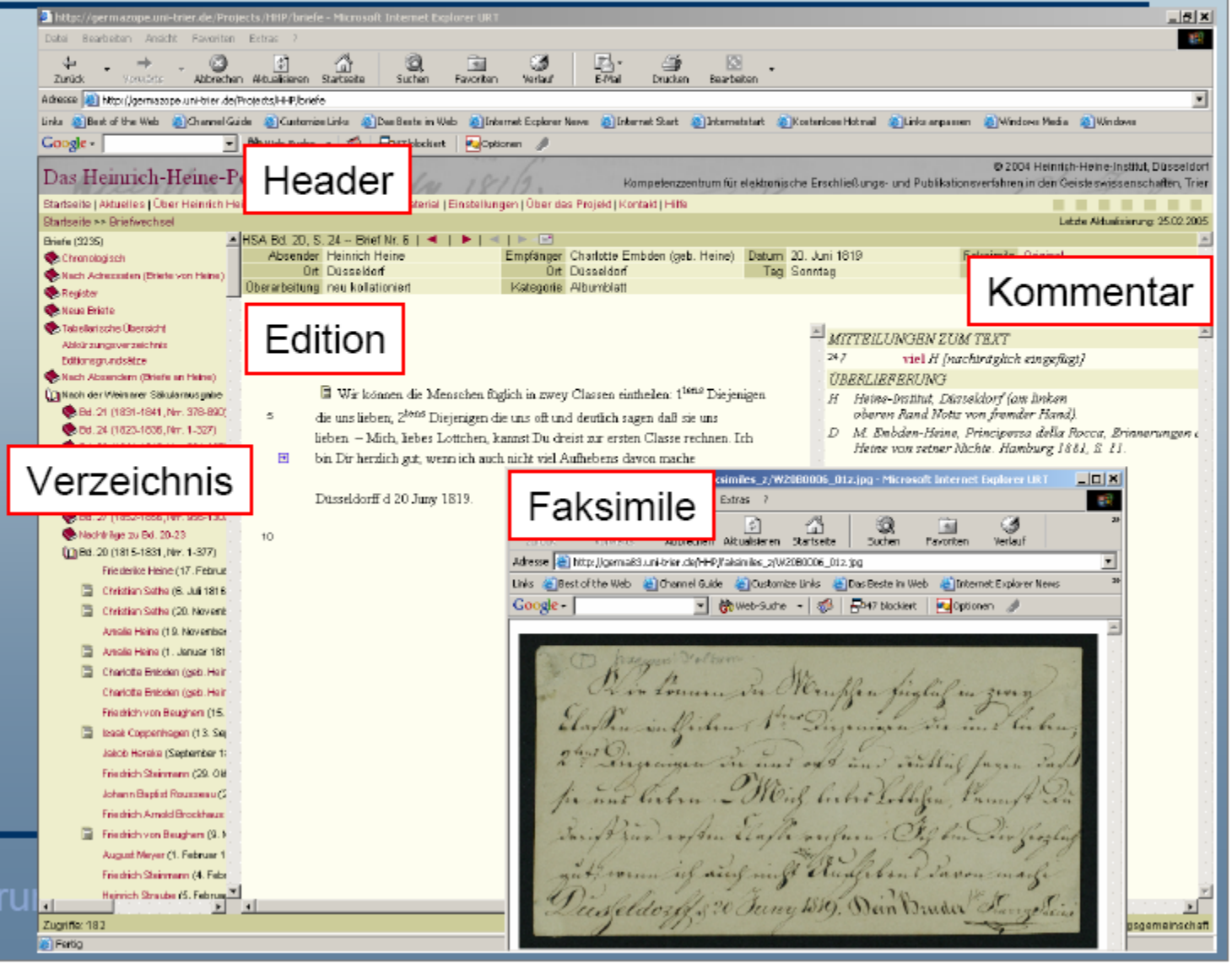
- Integration of all tools in one user interface (workflow editor, project management …)
- Definition and configuration of workflows and processes
- Road map for community building
- Models for sustainability
- International Cooperation (e.g. service descriptions interoperable with Interedition)

Anwendungsszenarien

- Typische Arbeitsschritte bei der Erschließung von Primärquellen
  - Katalogisierung, Verzeichnung
  - Erfassung, Faksimilierung, Transkription
  - Edition (Leseausgaben, Studienausgaben, (historisch-)kritische Editionen)
  - Publikation (Print, Digital, Online, Offline)
  - Analyse, Auswertung (quantitativ/statistisch, qualitativ/erläuternd)
  - Erschließung, Kontextualisierung (Register, Verzeichnisse, Kommentare, Grammatiken, Wörterbücher etc.)

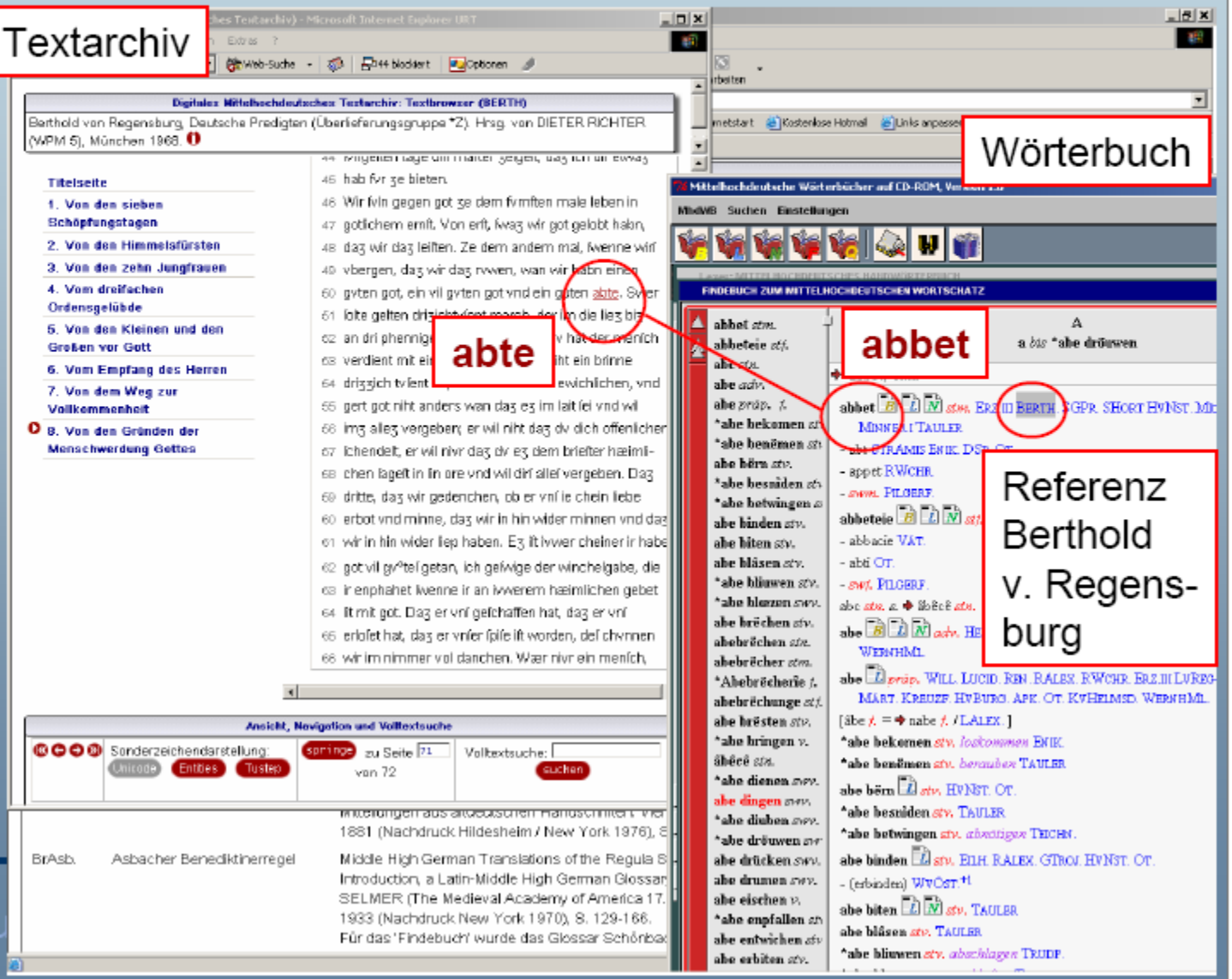
Beispiele: Erschließung / Kontextualisierung

Heine Brief-ausgabe



Beispiele: Erschließung / Kontextualisierung

Mittelhoch-deutsches Textarchiv, hier Berthold von Regens-burg, und Trierer Findebuch, Lemma ‚abbet'



KOPAL, a German Long-term Preservation System

Partners:

- German National Library (DNB)
- Göttingen State and University Library (SUB Göttingen)
- IBM
- GWDG (Computing Centre for Göttingen University and the Max-Planck-Society)

http://kopal.langzeitarchivierung.de/

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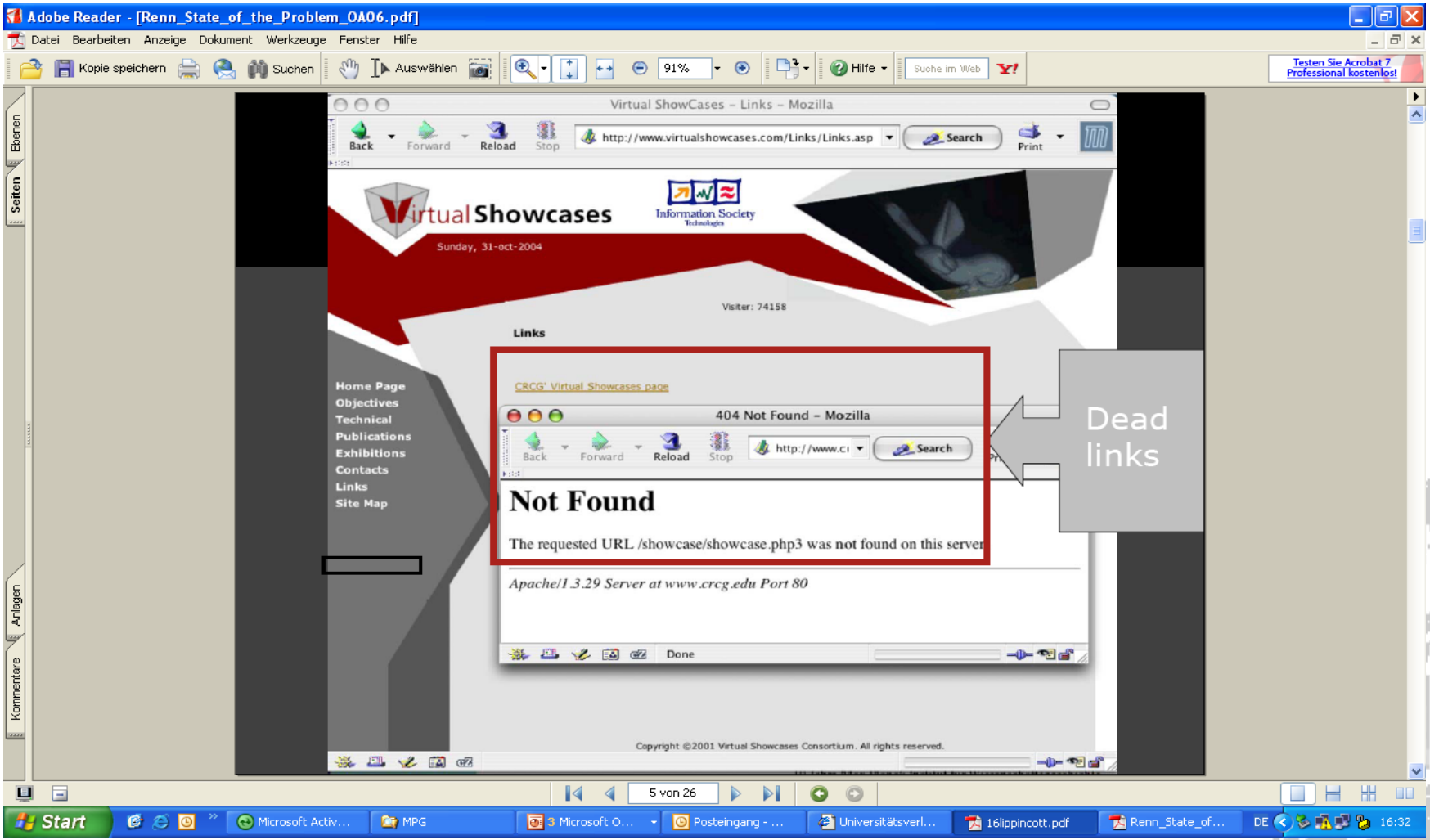
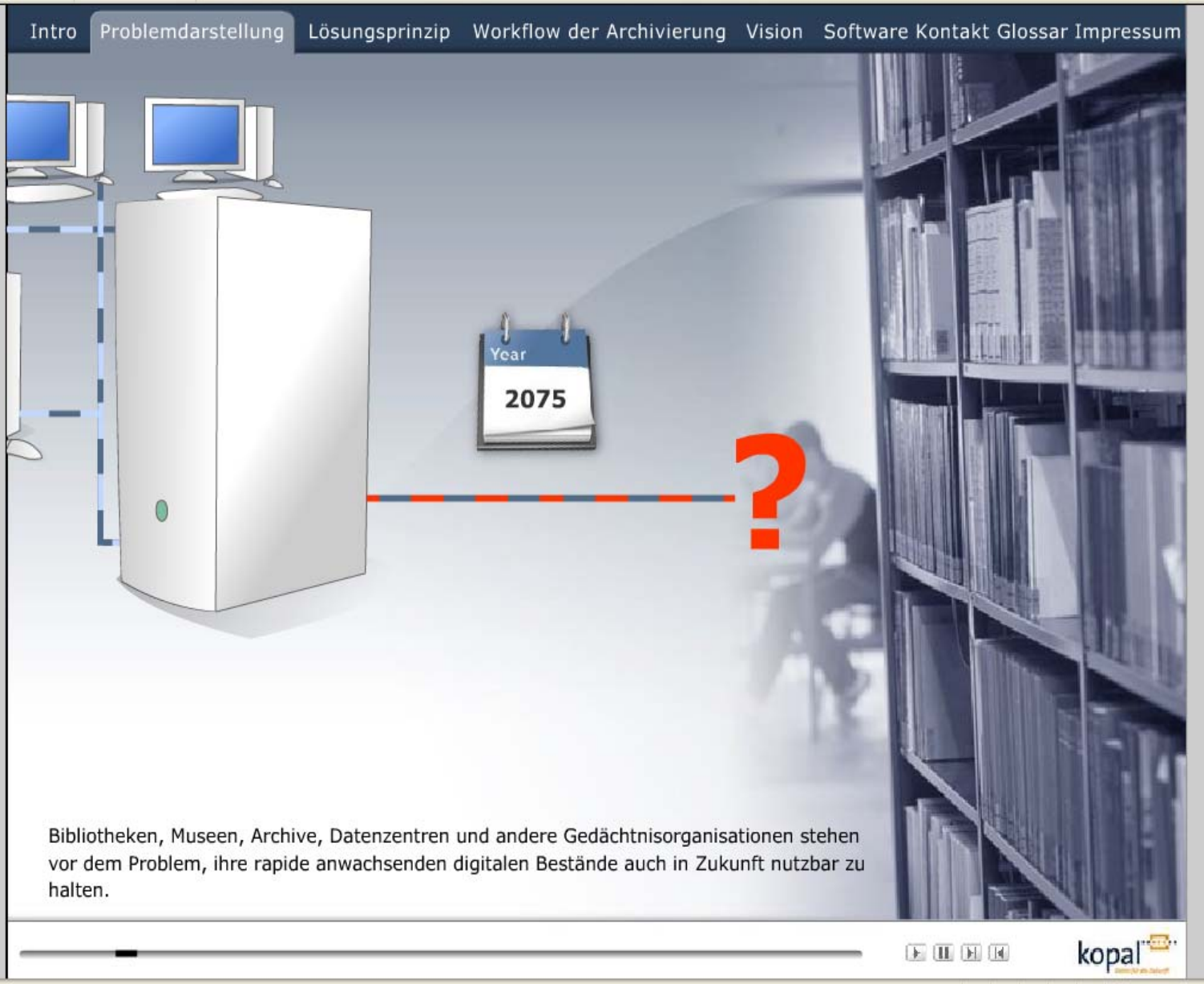
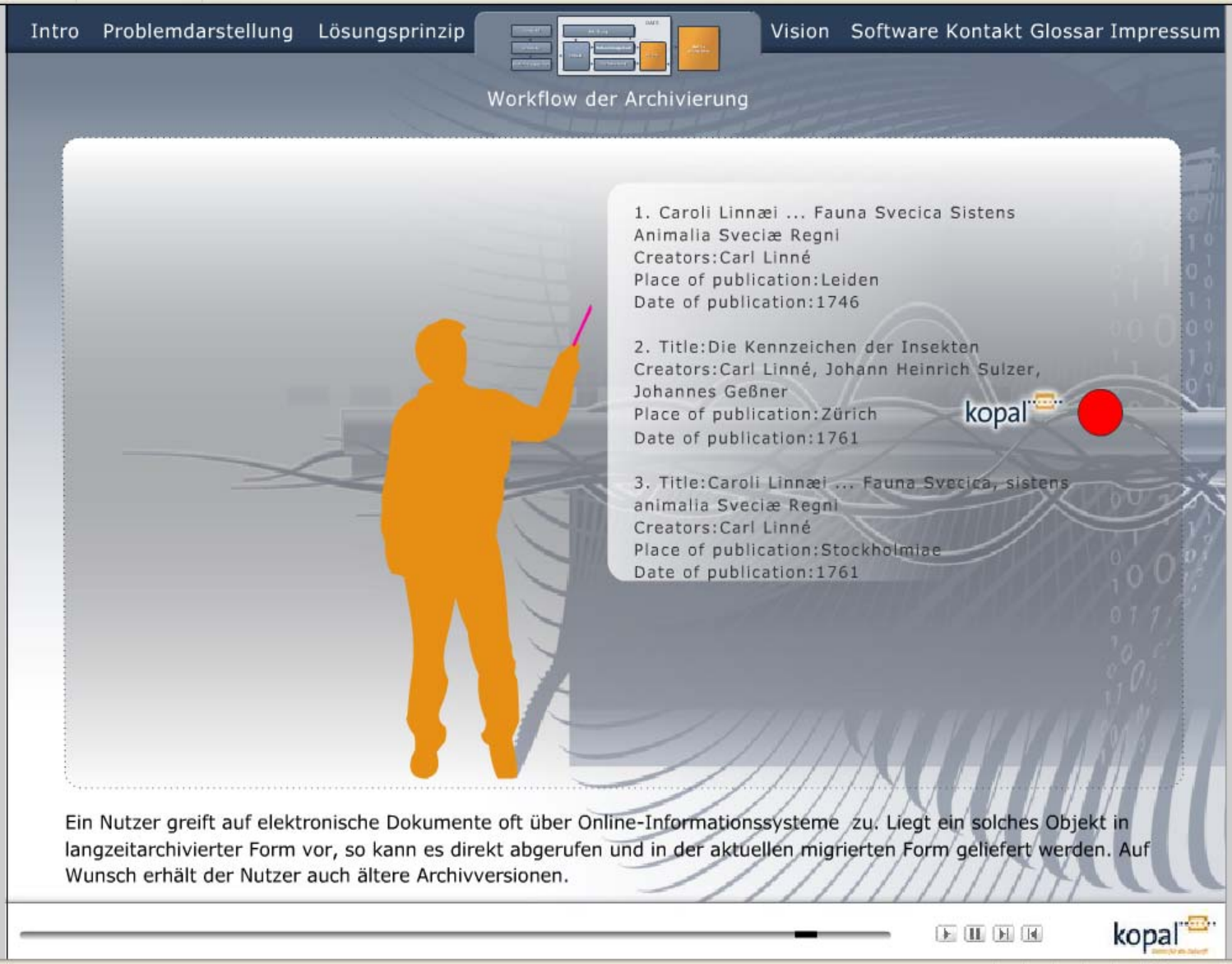

Adobe Reader - [Renn_State_of_the_Problem_OA06.pdf]
Virtual ShowCases – Links – Mozilla
Virtual Showcases
Information Society
Sunday, 31-oct-2004
Visiter: 74158
Links
Home Page
Objectives
Technical
Publications
Exhibitions
Contacts
Links
Site Map
CRCG' Virtual Showcases page
404 Not Found – Mozilla
Not Found
The requested URL /showcase/showcase.php3 was not found on this server
Apache/1.3.29 Server at www.crcg.edu Port 80
Copyright ©2001 Virtual Showcases Consortium. All rights reserved.
Dead links
5 von 26


Intro
Problemdarstellung
Lösungsprinzip
Workflow der Archivierung
Vision
Software
Kontakt
Glossar
Impressum
Year
2075
?
Bibliotheken, Museen, Archive, Datenzentren und andere Gedächtnisorganisationen stehen vor dem Problem, ihre rapide anwachsenden digitalen Bestände auch in Zukunft nutzbar zu halten.
kopal
Fertig
Internet


Intro
Problemdarstellung
Lösungsprinzip
Vision
Software
Kontakt
Glossar
Impressum
Workflow der Archivierung
1. Caroli Linnæi ... Fauna Svecica Sistens Animalia Sveciæ Regni
Creators:Carl Linné
Place of publication:Leiden
Date of publication:1746
2. Title:Die Kennzeichen der Insekten
Creators:Carl Linné, Johann Heinrich Sulzer, Johannes Geßner
Place of publication:Zürich
Date of publication:1761
3. Title:Caroli Linnæi ... Fauna Svecica, sistens animalia Sveciæ Regni
Creators:Carl Linné
Place of publication:Stockholmiae
Date of publication:1761
kopal
Ein Nutzer greift auf elektronische Dokumente oft über Online-Informationssysteme zu. Liegt ein solches Objekt in langzeitarchivierter Form vor, so kann es direkt abgerufen und in der aktuellen migrierten Form geliefert werden. Auf Wunsch erhält der Nutzer auch ältere Archivversionen.
kopal
Fertig
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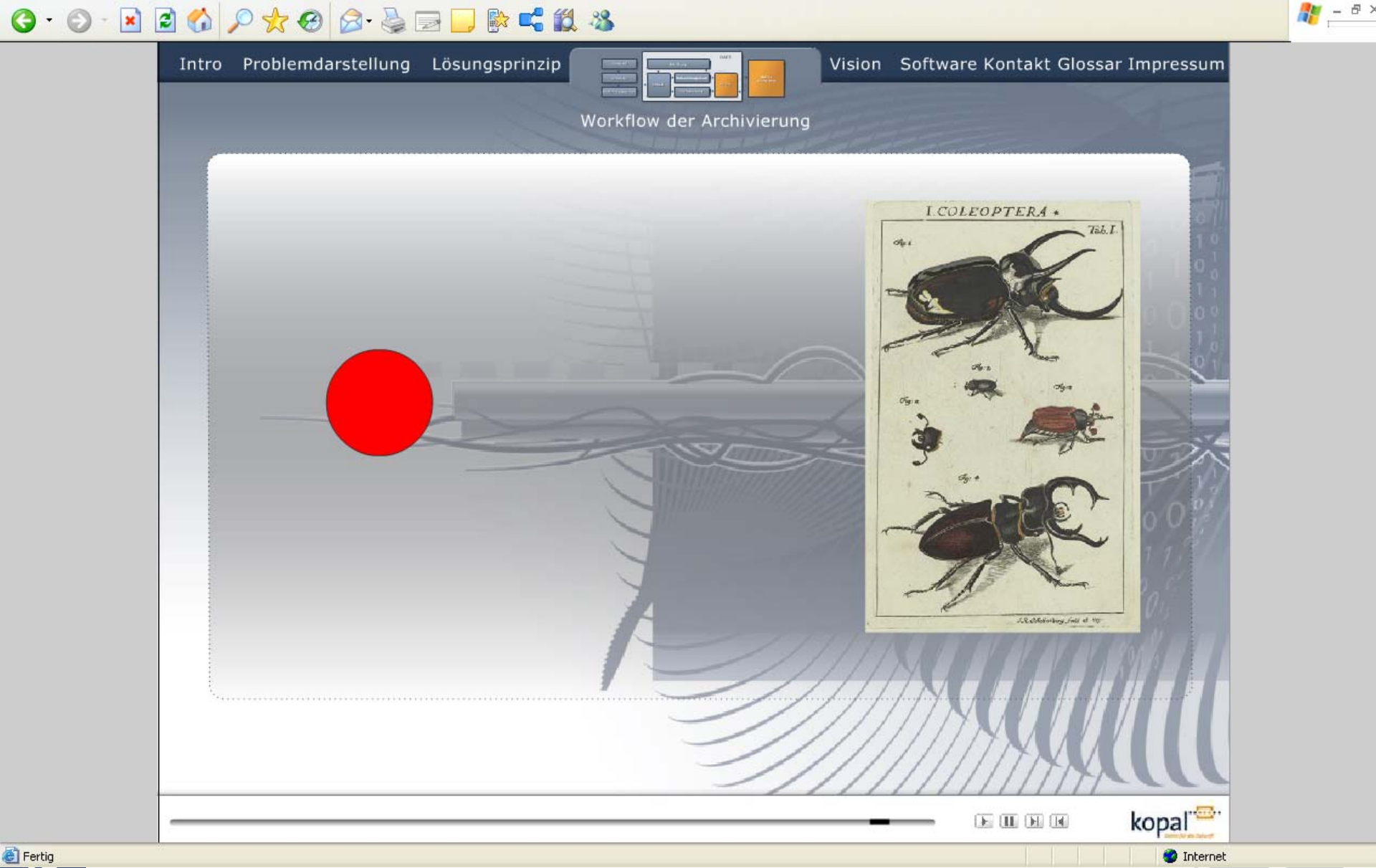
Intro
Problemdarstellung
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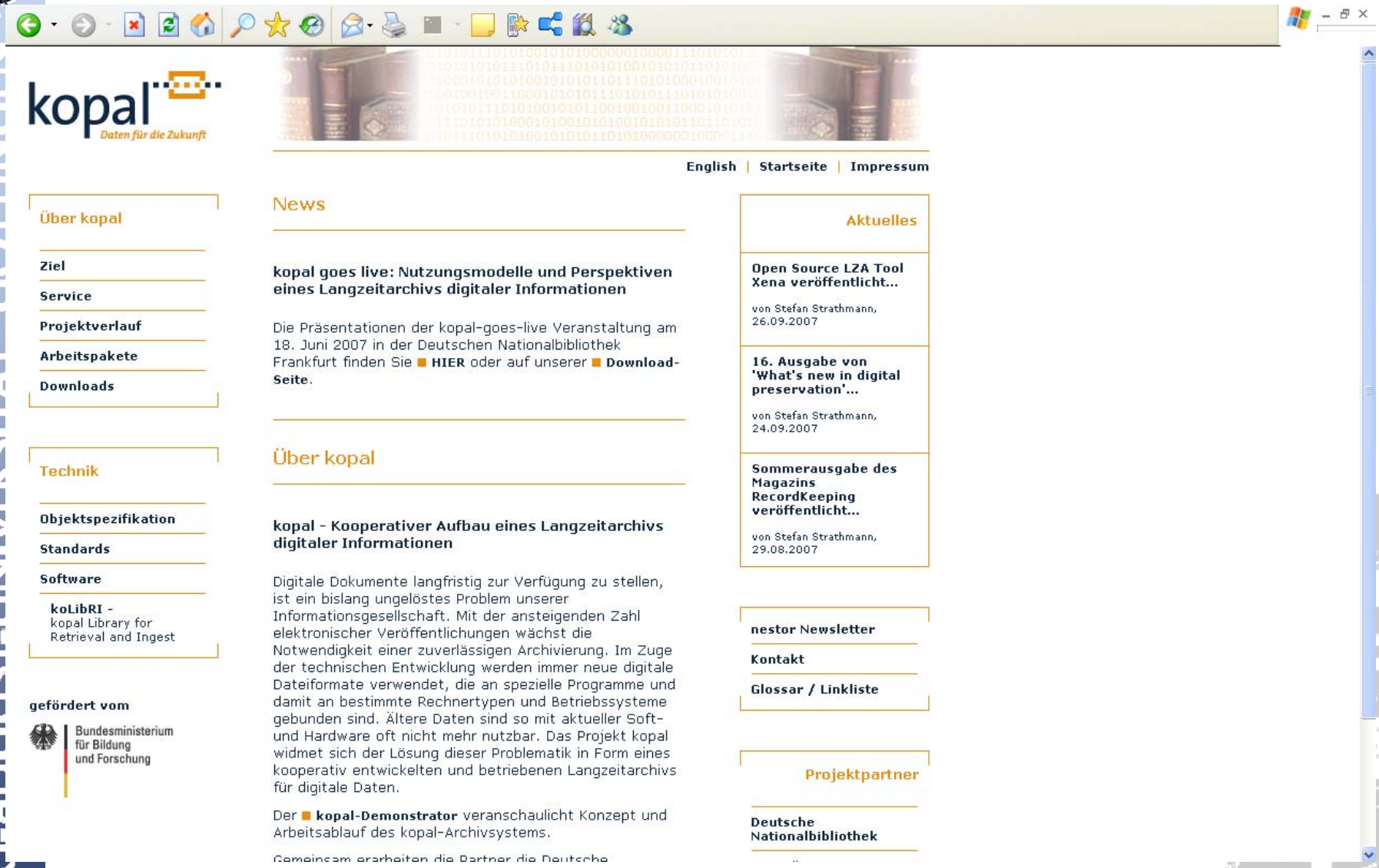
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Daten für die Zukunft
English | Startseite | Impressum
Über kopal
Ziel
Service
Projektverlauf
Arbeitspakete
Downloads
Technik
Objektspezifikation
Standards
Software
koLibRI - kopal Library for Retrieval and Ingest
gefördert vom
Bundesministerium für Bildung und Forschung
News
kopal goes live: Nutzungsmodelle und Perspektiven eines Langzeitarchivs digitaler Informationen
Die Präsentationen der kopal-goes-live Veranstaltung am 18. Juni 2007 in der Deutschen Nationalbibliothek Frankfurt finden Sie HIER oder auf unserer Download-Seite.
Über kopal
kopal - Kooperativer Aufbau eines Langzeitarchivs digitaler Informationen
Digitale Dokumente langfristig zur Verfügung zu stellen, ist ein bislang ungelöstes Problem unserer Informationsgesellschaft. Mit der ansteigenden Zahl elektronischer Veröffentlichungen wächst die Notwendigkeit einer zuverlässigen Archivierung. Im Zuge der technischen Entwicklung werden immer neue digitale Dateiformate verwendet, die an spezielle Programme und damit an bestimmte Rechnertypen und Betriebssysteme gebunden sind. Ältere Daten sind so mit aktueller Soft- und Hardware oft nicht mehr nutzbar. Das Projekt kopal widmet sich der Lösung dieser Problematik in Form eines kooperativ entwickelten und betriebenen Langzeitarchivs für digitale Daten.
Der kopal-Demonstrator veranschaulicht Konzept und Arbeitsablauf des kopal-Archivsystems.
Gemeinsam erarbeiten die Partner die Deutsche
Aktuelles
Open Source LZA Tool Xena veröffentlicht...
von Stefan Strathmann, 26.09.2007
16. Ausgabe von 'What's new in digital preservation'...
von Stefan Strathmann, 24.09.2007
Sommerausgabe des Magazins RecordKeeping veröffentlicht...
von Stefan Strathmann, 29.08.2007
nestor Newsletter
Kontakt
Glossar / Linkliste
Projektpartner
Deutsche Nationalbibliothek

Servercluster, GWDG (Computing Centre for Göttingen University and the Max-Planck-Society)

Future roles for research libraries

Digitisation and Networked Collections

- Digitise collections and bring them into international networks (incl. Organisational and policy issues)

Build national and international networks of digital repositories

- Setting up institutional repositories according to international standards (see certification like DINI, DRIVER Guidelines)
- Organise the deposit of all research publications of your organisation
- Integrate the local repository in the national and international repository network
- Organise and implement the linking from documents to primary data sets and any other digital object (film, language recording etc.; using e.g. the TIB Hannover primary data identifier registry system)

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Future roles for research libraries

Enable and support open access publishing for journals and books

- Build up University Publishing Houses (perhaps in a network) and publish books in Open Access
- Advocate Open Access at your institution among scientists and governing boards
- Negotiate contracts with publishers, which allow open access publishing (original PDF file) also on the institutional repository
- Carry out projects with publishers, to shift cashflow from subscriptions to the payment of the publishing process, resulting in Open Access

Information technology and service watch

- Watch technology developments of new research tools (such as the „Textgrid suite“) and offer those services to your scholars (directly or as mediator)

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Future roles for research libraries

Library structure and staff development

- Restructure your libraries in order to free-up personell for new services
- Carry out projects to get new staff with technology skills into the library
- Train your permanent staff to meet future demands (e.g. TICER Summer School, Tilburg University, NL)

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Characteristics of digital future library services

- Libraries will continue to digitise their collections
- Libraries will link documents to primary data sets, further digital objects, learning modules, providing standard metadata, persistent identifiers
- All search & navigation (like OPAC) and other information handling tools (like textgrid) can be exported into the desktop environment of researchers & students ⇨ Reseachers can compose their own „Information Service“ desktop (eSciDoc, Germany; Research Information Centre, UK)
- Document delivery will be subsequently complemented (replaced?) by online repository networks (see DRIVER in Europe)
- Libraries provide digital preservation services

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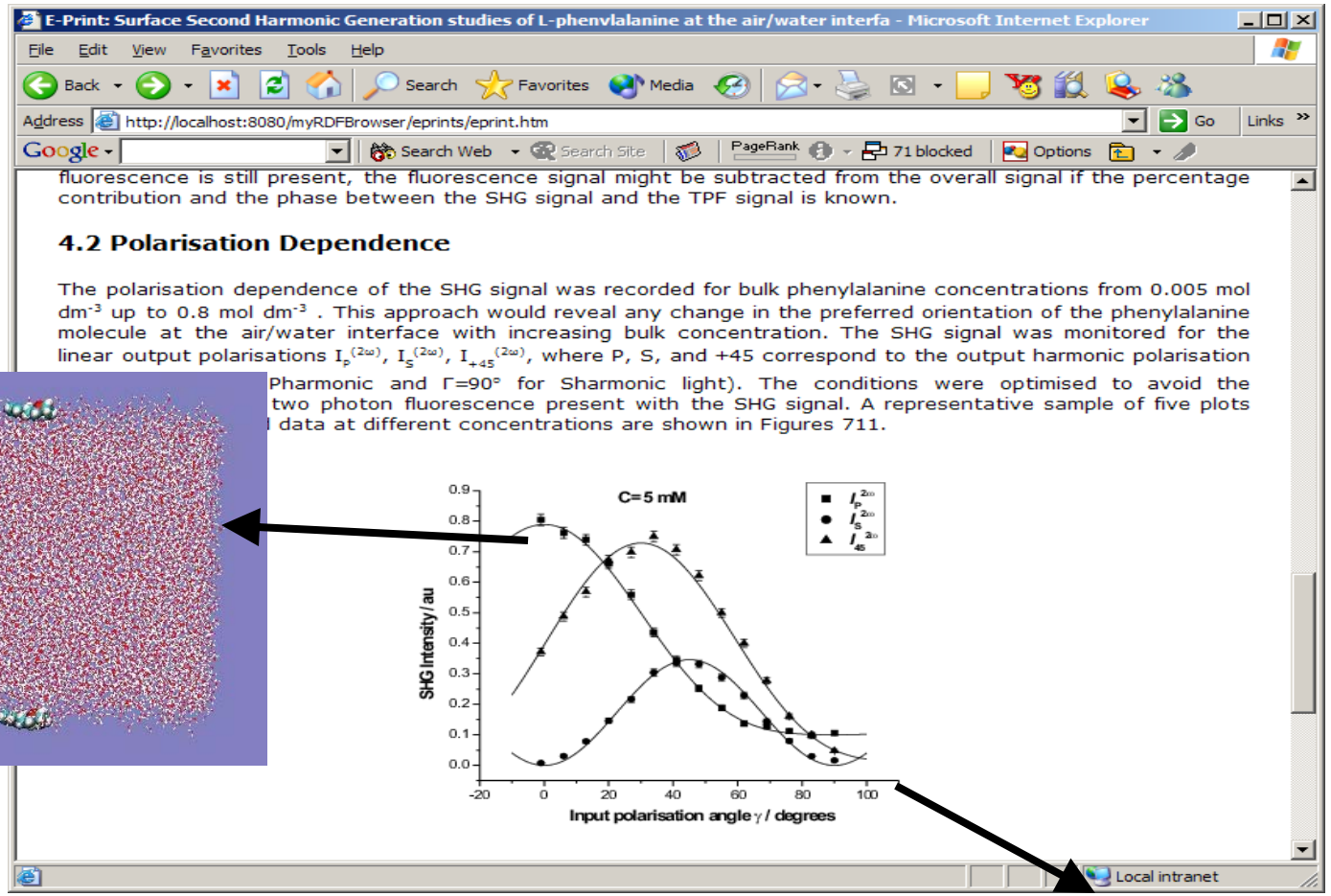
Publications as Live Documents



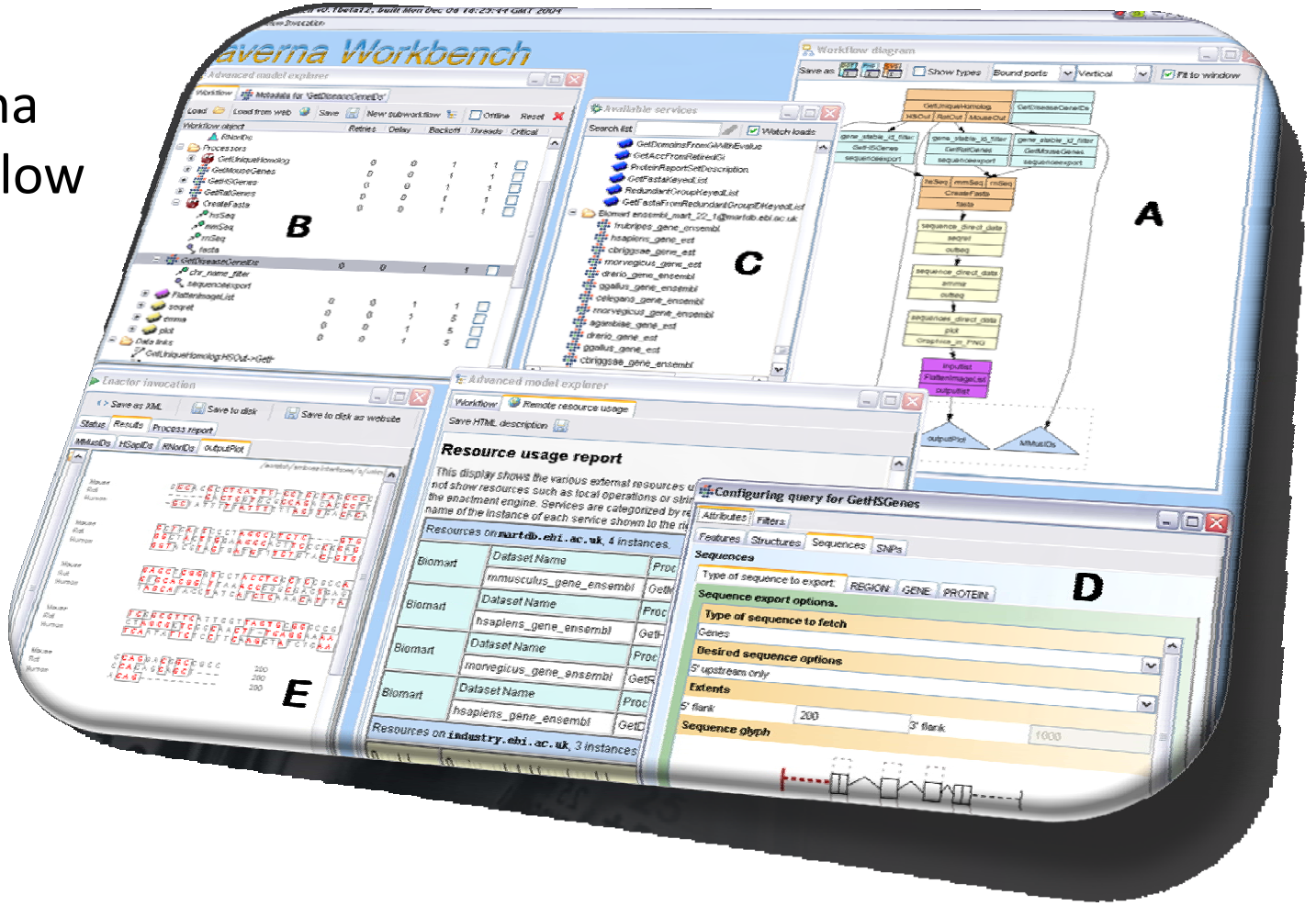
Link to simulation software and data in archive

Link to data, follow links back to the raw data archive

Acknowledgments go to Tony Hey, VP Microsoft, 2007

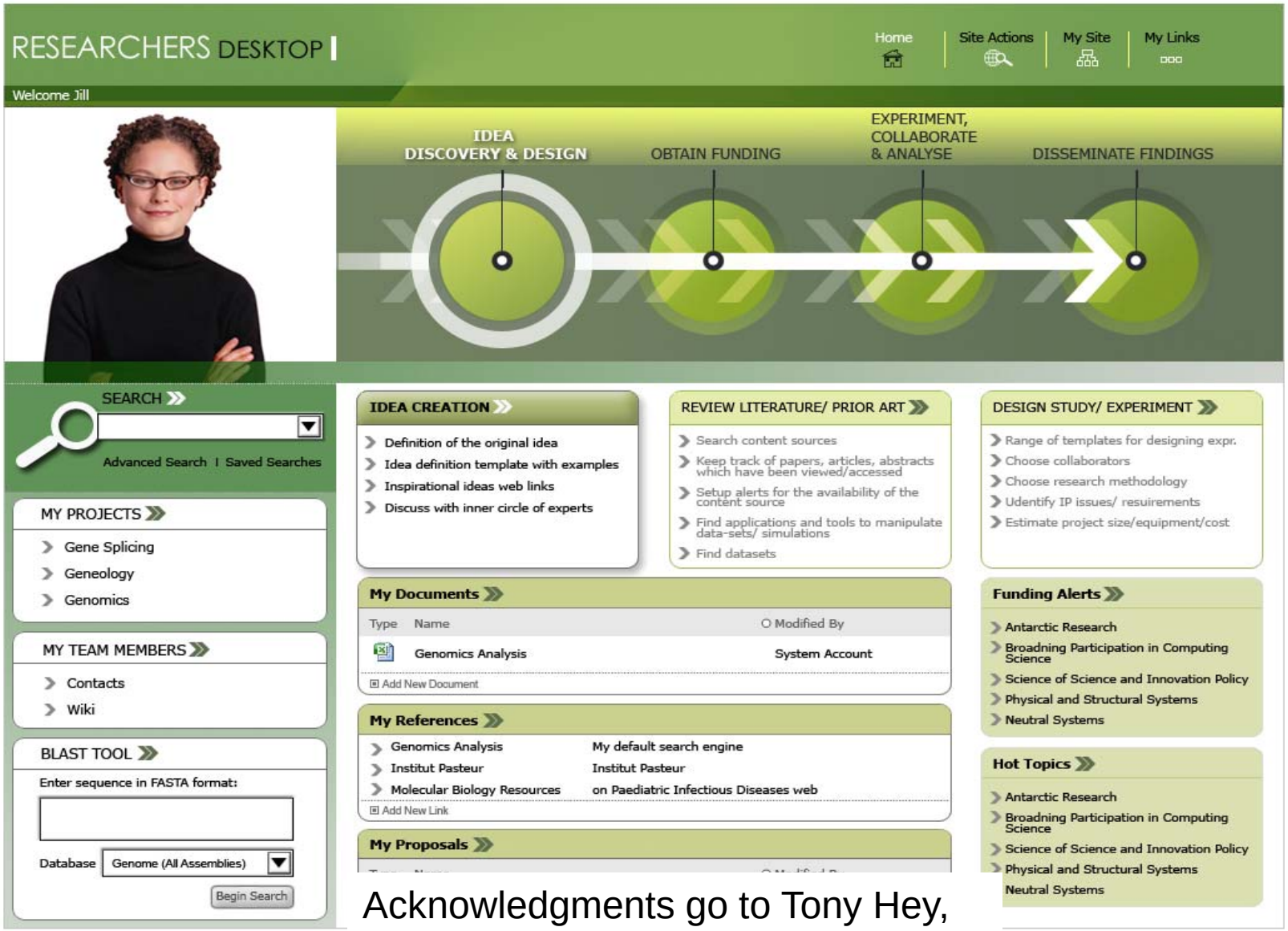
e-Science: Services can be composed

Taverna Workflow



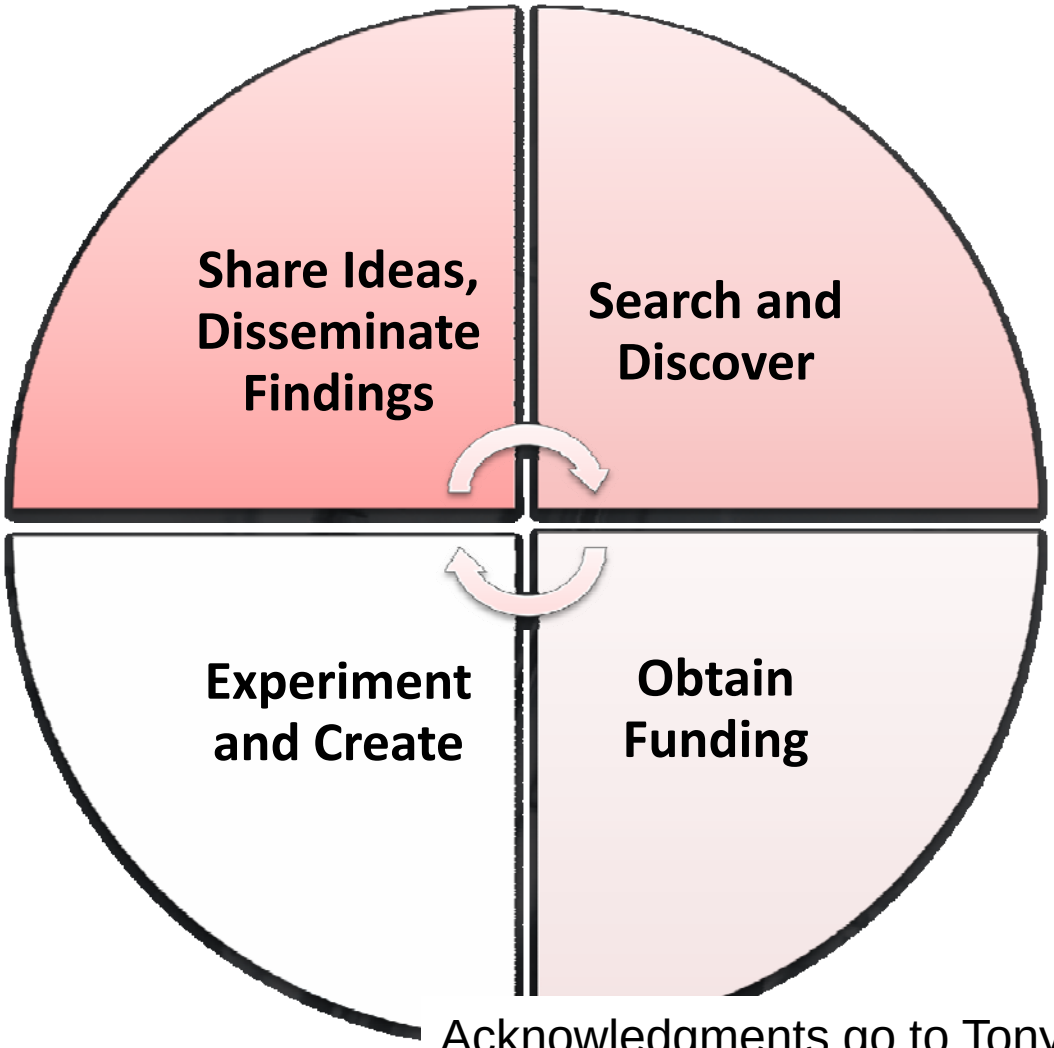
Acknowledgments go to Tony Hey, VP Microsoft, 2007

The BL Research Information Center



Acknowledgments go to Tony Hey, VP Microsoft, 2007

Tools and Services in Context



Acknowledgments go to Tony Hey, VP Microsoft, 2007

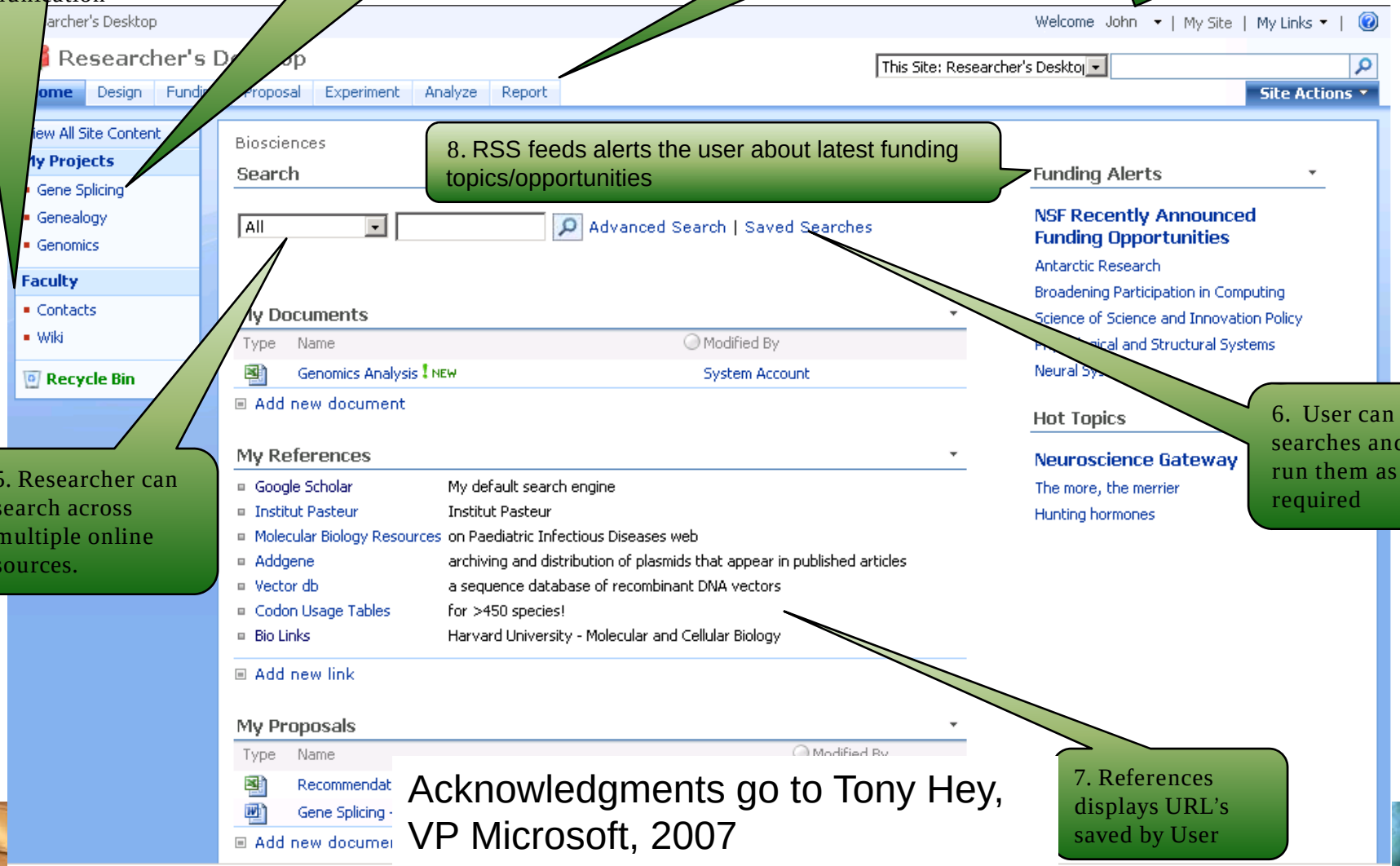
Home page with RSS & Live Search integration

4. Faculty menu displays Contacts and Wiki. LCS adds presence to contacts for IM communication

3. Researcher can move between his Projects by clicking on the project name

2. The research lifecycle phases are represented as tabs

1. John Logs in Using his infocard. The portal is personalized for the logged in user



8. RSS feeds alerts the user about latest funding topics/opportunities

5. Researcher can search across multiple online sources.

6. User can save searches and re-run them as required

7. References displays URL's saved by User

Acknowledgments go to Tony Hey, VP Microsoft, 2007

Digital knowledge management of libraries for Virtual Research Environments („e-Research“)

Traditional Libraries

- Books, Journals
- Book Shelves
- Online catalogues
- Classifications
- Closed and open stacks, conservation&preservation
- Acting local

Libraries & e-Research

- ~ + Primary data, films, fotos, language records, radio broadcasts, simulations
- Online repositories (publications and primary data)
- Qualified search engines
- Dynamic, semantic networks/ontologies/semantic maps
- Digital preservation
- Acting cross-institutionally & internationally

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Thank you for your attention!

Photos: Ronald Schmidt, Göttingen

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