



Usage data: Workshop Objectives from the perspective of the DINI - DFG - JISC projects

Frank Scholze
Nils Windisch

JISC Usage Statistics Workshop
Humboldt University Berlin,
Erwin Schrödinger Center, 7.-8. July 2008



Cluster of projects

- open-access.net
- OA Repository Network
- OA Statistics
- OA Citations
- DRIVER
- JISC usage statistics review !





DINI certificate on usage statistics

- Minimum standards
 - Every document repository must keep consistent access statistics (web server log files)
 - Web server log files must be anonymized for long-term archiving purposes
 - Criteria used to collect or filter the data must be documented
- Recommendations
 - Access to documents by automated agents, robots or similar is filtered out (and documented)
 - Web server log files are edited according to the Counter Code of Practice
 - Access statistic is attached to the document as dynamic metadata and visible to the end-user

What do we count?

- Practical definition of meaningful items
 - Files?
 - Publications (journal articles etc.)?
- Identification of meaningful items
 - Checksums
 - Persistent identifiers
 - Distributed heterogeneous publication network



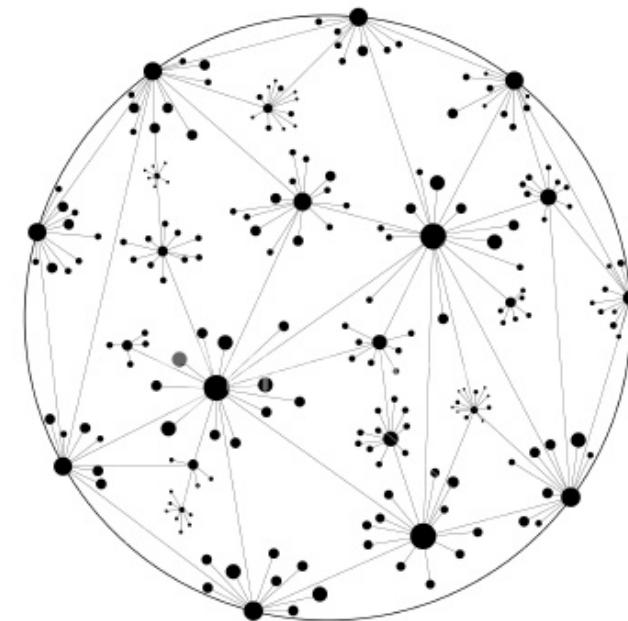
How do we count?

- Practical and pragmatic definition of usage
 - Access
 - Click spans
 - Definition of non-human access
 - Pseudonymization
 - Deleting or tagging
 - Sessions



How do we aggregate?

- Technically
 - processing on which level
 - OpenUrl ContextObjects
 - SUSHI
- Organisationally
 - DRIVER
 - OA Repository Network
 - ...
- Co-operation

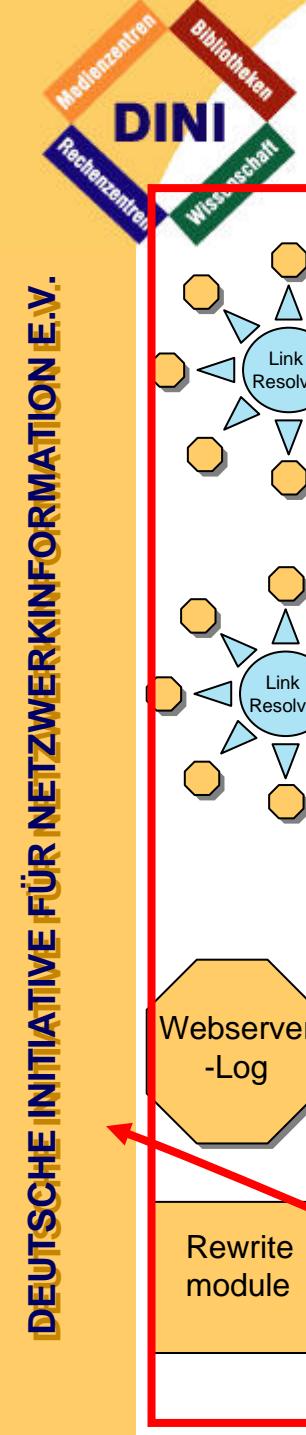


What do we report?

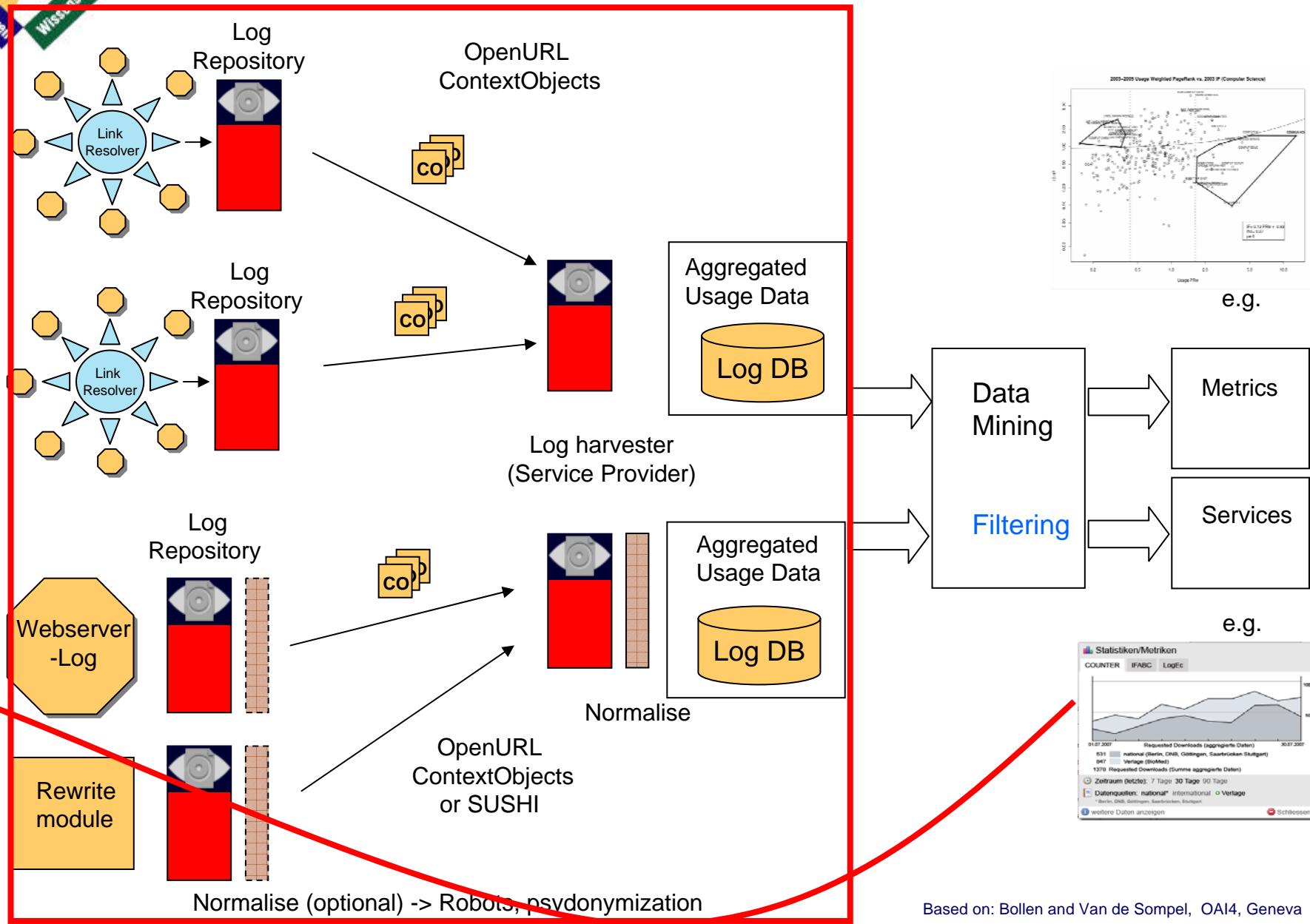
- Access over time
- Sources of aggregation
- Standards for processing



→ Transparency on the what and the how of counting



Infrastructure for aggregating usage data



Open Access Statistics

realize what others had in mind...

Project

- Funded by: DFG (German Research Foundation)
- 18 months 2008-07-01 – 2009-12-31
- Partner: Berlin (CMS) Göttingen (SUB), Saarbrücken (SUUB), Stuttgart (UB)

Context

- One of three projects:
 - Open Access Network of Repositories (OA-N)
 - Open Access Citation (DOARC, Distributed Open-Access Reference Citation services)
 - Open Access Statistics (OA-S)

Objectives

- Aggregate and normalize usage data locally
- Act as data provider
- Collect data at service provider level
- Process data to provide added values services

Aufsatz zugänglich unter

URN: urn:nbn:de:bsz:93-opus-32590

URL: <http://elib.uni-stuttgart.de/opus/volltexte/2007/1000/>

Protein Kinase D regulates several aspects of the cell cycle in yeast

Maier, Dieter ; Nagel, Anja C. ; Gloc, Helmut ; ... ; Schmitz, Anette

Originalveröffentlichung: (2007) BMC Biology, 5, 10
<http://www.biomedcentral.com/1741-7015/5/10>

pdf-Format: Dokument 1.pdf (1.1 MB)

Statistiken:

Gedruckte Ausgabe: Print-on-demand

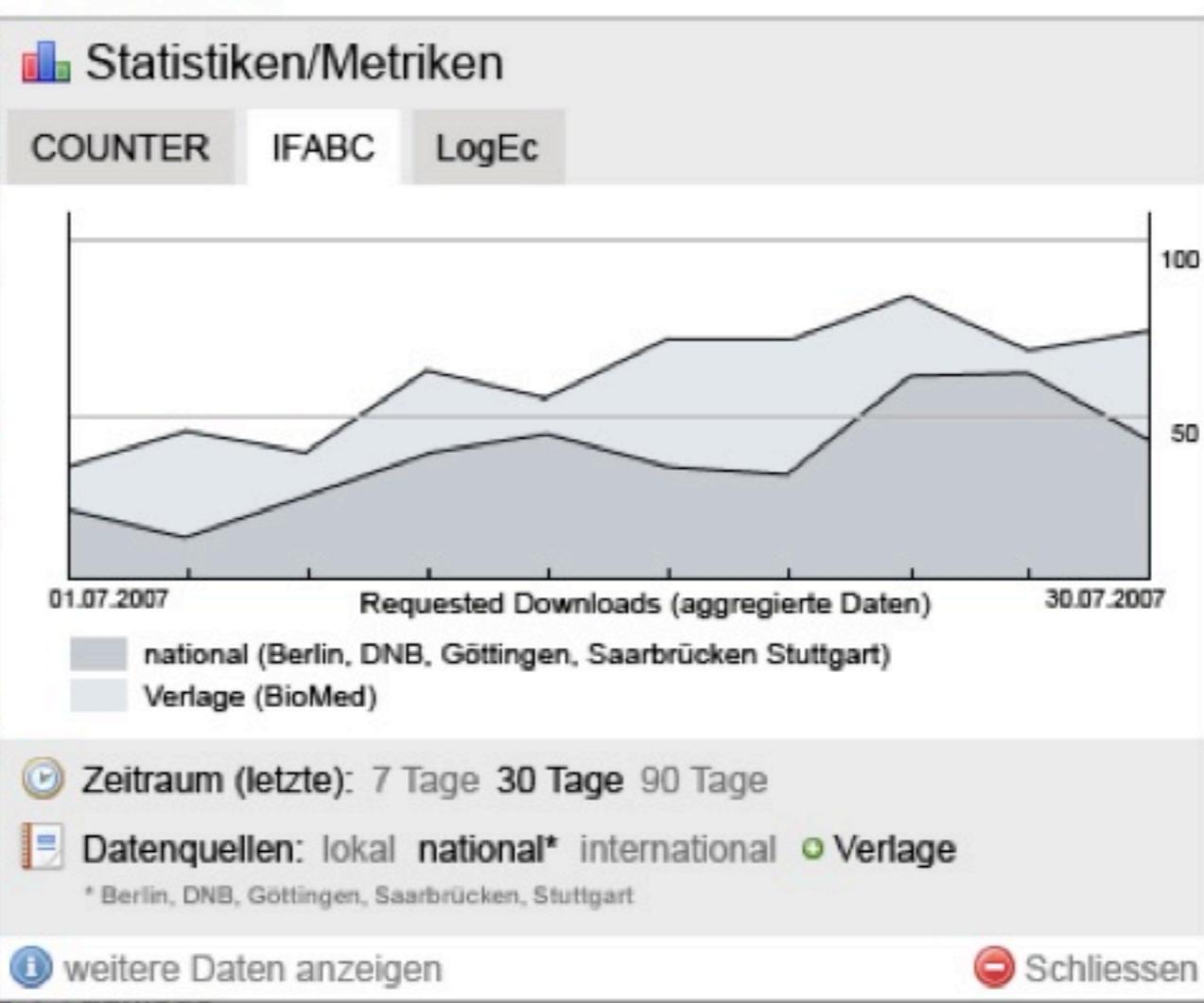
Dokument empfehlen:

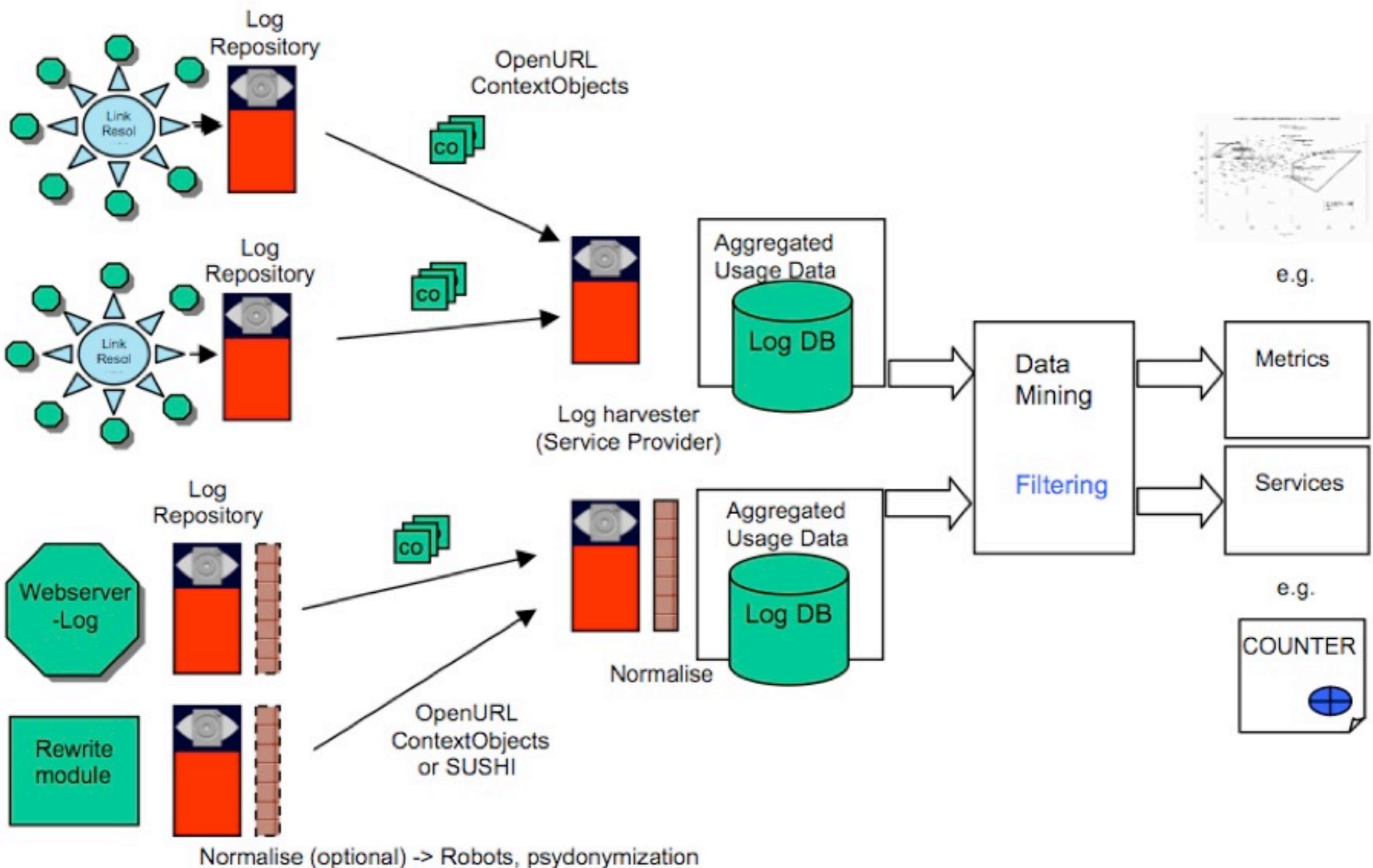
Dokument in Google Scholar suchen:

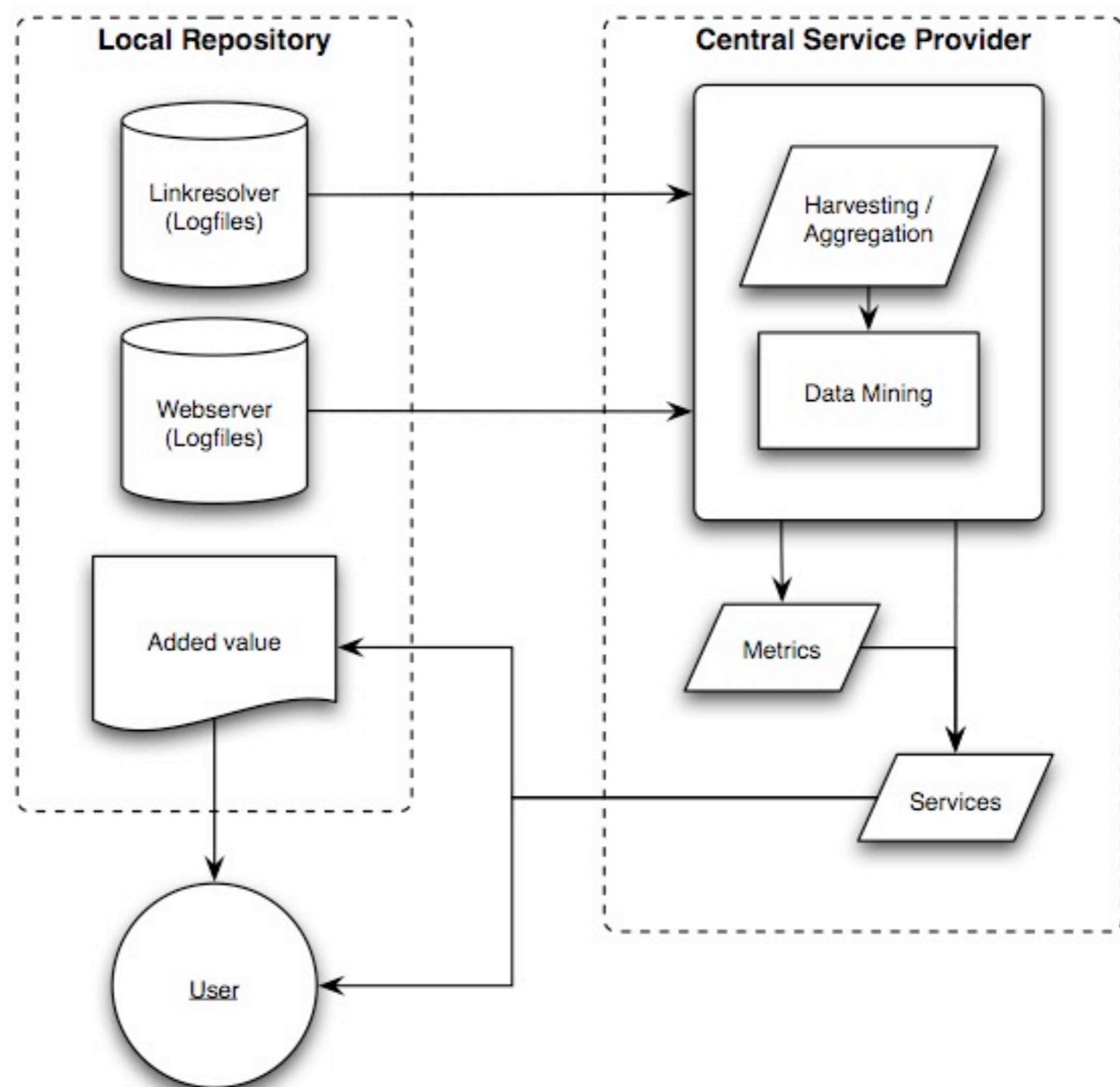
SWD-Schlagwörter: Proteinkinase

Institut: Institut für Zellbiologie und Immunologie

DDC-Sachgruppe: Biowissenschaften, Biologie







Deal with usage date

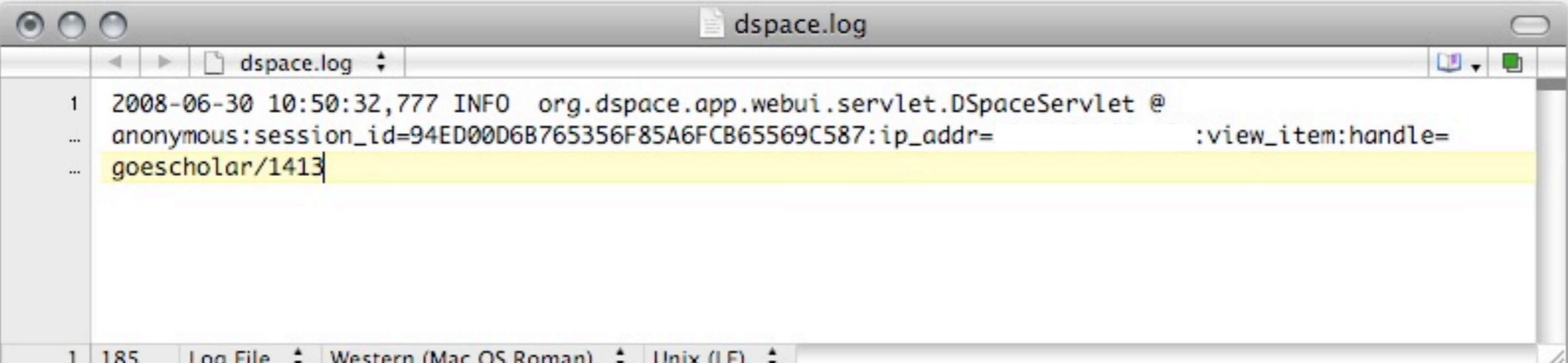
- Different sources
 - License server (HAN-Server)
 - Link resolver (SFX)
 - Repository software (DSpace, OPUS, e-doc, etc.)



localhost_access_log.2008-06-30.txt

```
1 - - [30/Jun/2008:08:22:54 +0100] "GET /dspace/handle/goedoc/1066 HTTP/1.1" 200
.. 12659 "http://134.76.163.165:8080/dspace/center-list" "Mozilla/5.0 (X11; U; Linux i686 (x86_64); de-DE; rv:1.8.0.10) Gecko/20060911 SUSE/1.5.0.10-0.2 Firefox/1.5.0.10"
```

1 80 (none) Western (Mac OS Roman) Unix (LF)



dspace.log

```
1 2008-06-30 10:50:32,777 INFO org.dspace.app.webui.servlet.DSpaceServlet @
.. anonymous:session_id=94ED00D6B765356F85A6FCB65569C587:ip_addr=
.. goescholar/1413 :view_item:handle=
```

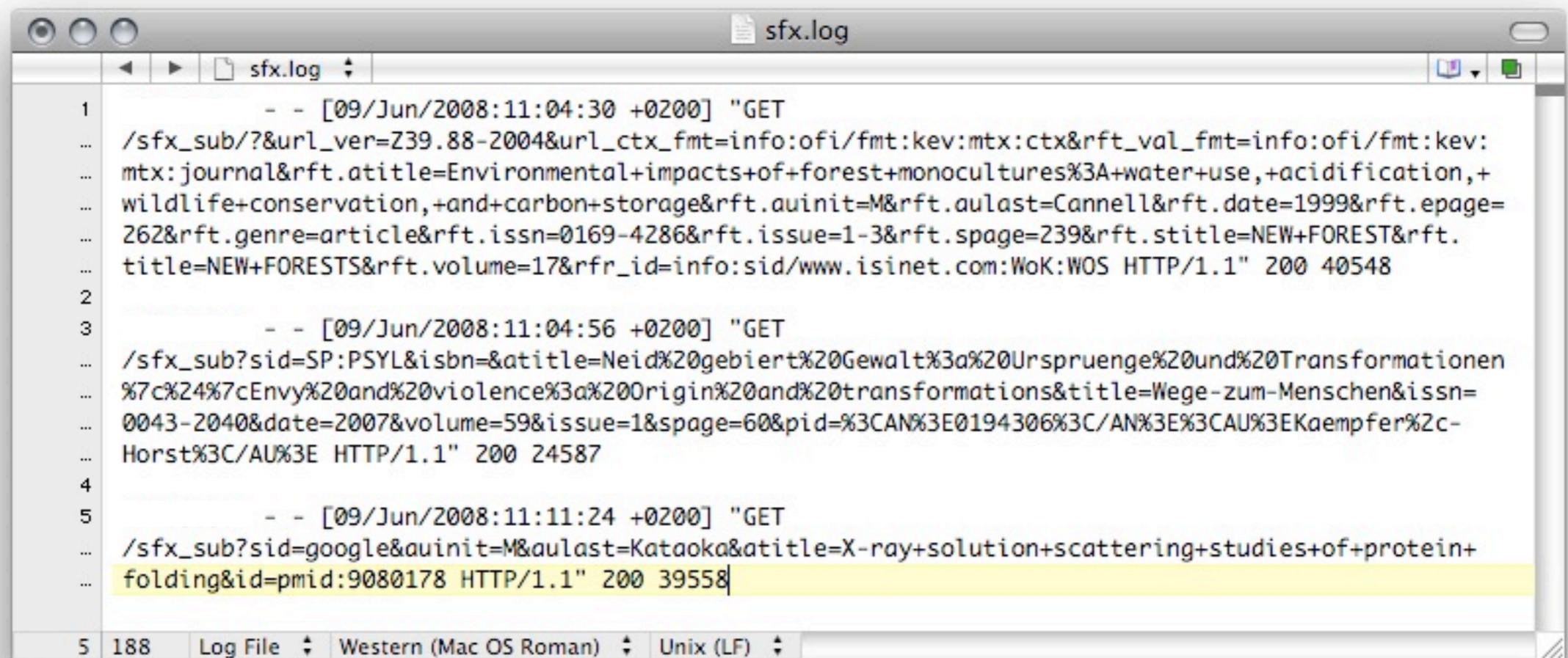
1 185 Log File Western (Mac OS Roman) Unix (LF)

Repository software (DSpace)

The screenshot shows a Mac OS X terminal window with the title bar 'han.log'. The window contains a text log of network requests. Lines 1 through 7 are visible, each starting with a timestamp and a request line. Line 7 is highlighted with a yellow background. The log entries are as follows:

```
1 ;4548;00071715088;09/Jun/2008:11:20:39;GET;/han/ISIWebofScience/apps.isiknowledge.com/gratuitous.jpg?URL=http%3A//han.sub.uni-goettingen.de/han/ISIWebofScience/apps.isiknowledge.com/summary.do&PageStart=1213003230890&LoadTime=688
2
3 ;4268;-;09/Jun/2008:11:20:40;GET;/ezb/start?ezbid=794&title=Archives+of+Microbiology+%28Formerly%3A+Archiv+f%FCr+Mikrobiologie%29&publisher=Springer&zdbid=1458451&eissn=1432-072X&subject=W&l=%3B%3B%3B%3B%3B%3Bnnds_springer&url=http%3A%2F%2Fwww.springerlink.com%2Flink.asp%3Fid%3D100459&hash=58d5f94ae0be12ace541cde17b3e86e1
4
5 ;4268;UNIGOE;09/Jun/2008:11:20:40;GET;/han/794
6 ;4268;UNIGOE;09/Jun/2008:11:20:40;GET;/han/794/www.springerlink.com/link.asp?id=
7 100459 ;6564;UNIGOE - SERVER JURISTISCHE
FAKULTAET;09/Jun/2008:11:20:40;GET;/han/PsycInfo/web.ebscohost.com/ScriptResource.axd?d=wANNmv2XogJUceTRBZqLh0S0RFuIUIMfvNnZ1S221Mk595AkCW-eHlpag0Ju78AzwMHEWVg7k1ZnX8W-7qhE1CxjZ4MBk4Y-X-3a0xWHm5w1&t=633456741902995000
```

License server (HAN)



The screenshot shows a Mac OS X terminal window with the title bar "sfx.log". The window contains five log entries (labeled 1 through 5) with timestamp, method, URL, and status information. The URLs include various search parameters like "atitle", "auinit", and "rft.genre". The fifth entry is highlighted with a yellow background.

```
1 - - [09/Jun/2008:11:04:30 +0200] "GET /sfx_sub/?&url_ver=Z39.88-2004&url_ctx_fmt=info:ofi/fmt:kev:mtx:ctx&rft_val_fmt=info:ofi/fmt:kev:mtx:journal&rft.atitle=Environmental+impacts+of+forest+monocultures%3A+water+use,+acidification,+wildlife+conservation,+and+carbon+storage&rft.auinit=M&rft.aulast=Cannell&rft.date=1999&rft.epage=262&rft.genre=article&rft.issn=0169-4286&rft.issue=1-3&rft.spage=239&rft.stitle=NEW+FOREST&rft.title=NEW+FORESTS&rft.volume=17&rfr_id=info:sid/www.isinet.com:WoK:WOS HTTP/1.1" 200 40548
2
3 - - [09/Jun/2008:11:04:56 +0200] "GET /sfx_sub?sid=SP:PSYL&isbn=&atitle=Neid%20gebiert%20Gewalt%3a%20Urspruenge%20und%20Transformationen%7c%24%7cEnvy%20and%20violence%3a%20origin%20and%20transformations&title=Wege-zum-Menschen&issn=0043-2040&date=2007&volume=59&issue=1&spage=60&pid=%3CAN%3E0194306%3C/AN%3E%3CAU%3EKaempfer%2c-Horst%3C/AU%3E HTTP/1.1" 200 24587
4
5 - - [09/Jun/2008:11:11:24 +0200] "GET /sfx_sub?sid=google&auinit=M&aulast=Kataoka&atitle=X-ray+solution+scattering+studies+of+protein+folding&id=pmid:9080178 HTTP/1.1" 200 39558
```

Link resolver (SFX)

Map usage data

- Use established formats and rule sets
 - COUNTER
 - IFABC
 - LogEc

from A to B

- SUSHI vs. OAI-PMH + OpenURL CO
 - *project objectives include evaluation of each approach*
- SUSHI/OAI-OMH just a transport container/vehicle
- (Usage) data as XML payload

Context

- What about the JISC Usage Statistics Project and Workshop?
 - Provide inside information
 - Build on experience and expert opinions
 - Re-use existing technologies