

10 years BASE: A contribution to the worldwide development of repositories



Agenda

1. 10 years BASE
2. BASE-Interfaces
3. BASE OAI-PMH Validator
4. Recent developments
5. Repositories worldwide and Chinese Repositories via BASE
6. How to make Chinese Repositories visible through BASE
7. Academic documents in the web

1. 10 years BASE

- BASE = Bielefeld Academic Search Engine
- Search engine for academic content, provided by repositories via OAI-PMH
- www.base-search.net

1. 10 years BASE – The Team



BASE-News: <https://twitter.com/BASEsearch>

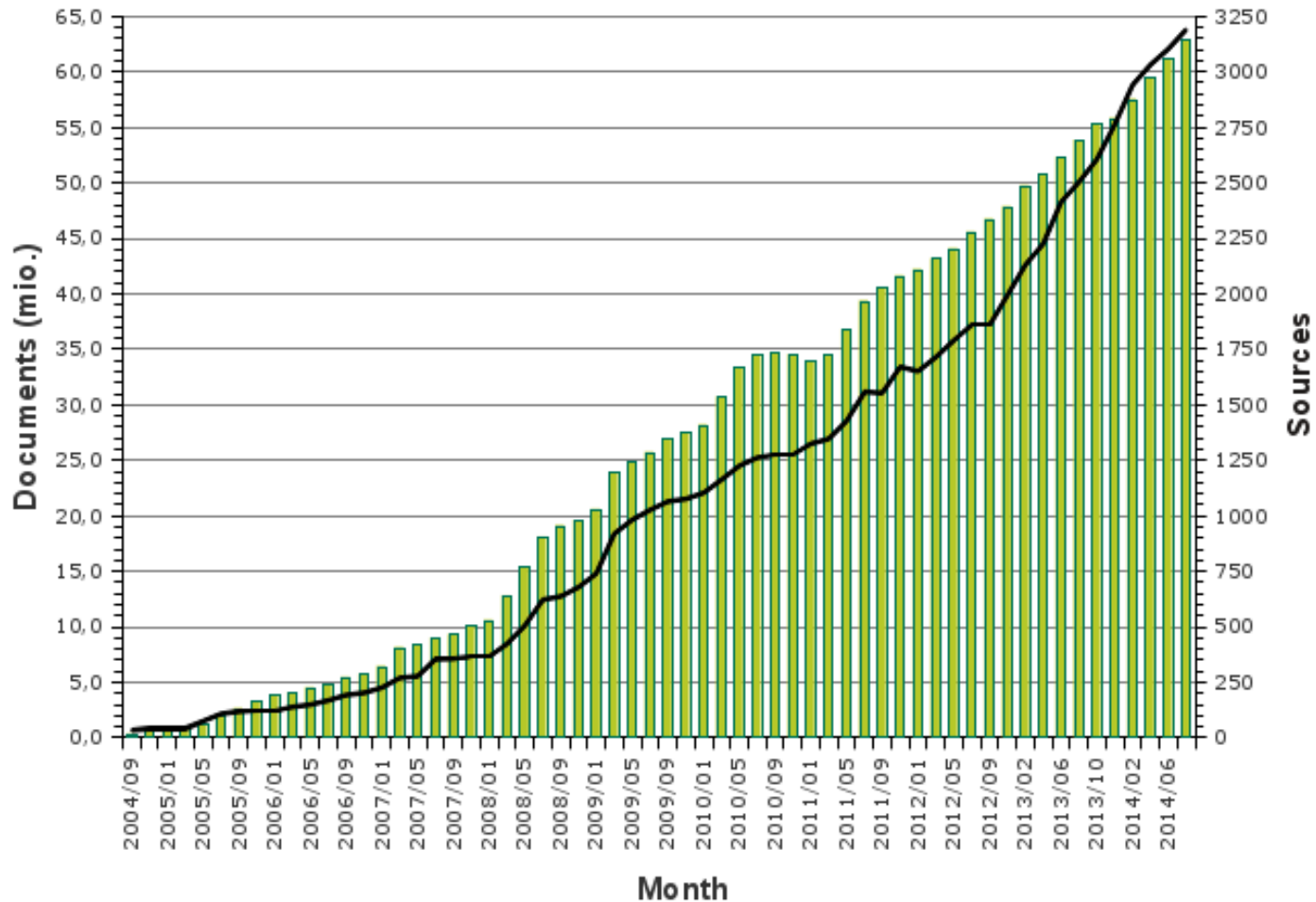
1. 10 years BASE

- BASE is harvesting, aggregating, normalizing and enriching OAI-metadata
- Index (Solr), search interface (VuFind)
- Data and contribution of repositories are transparent (in contrast to Google Scholar for example)
- BASE-APIs (HTTP, OAI)

1. 10 years BASE

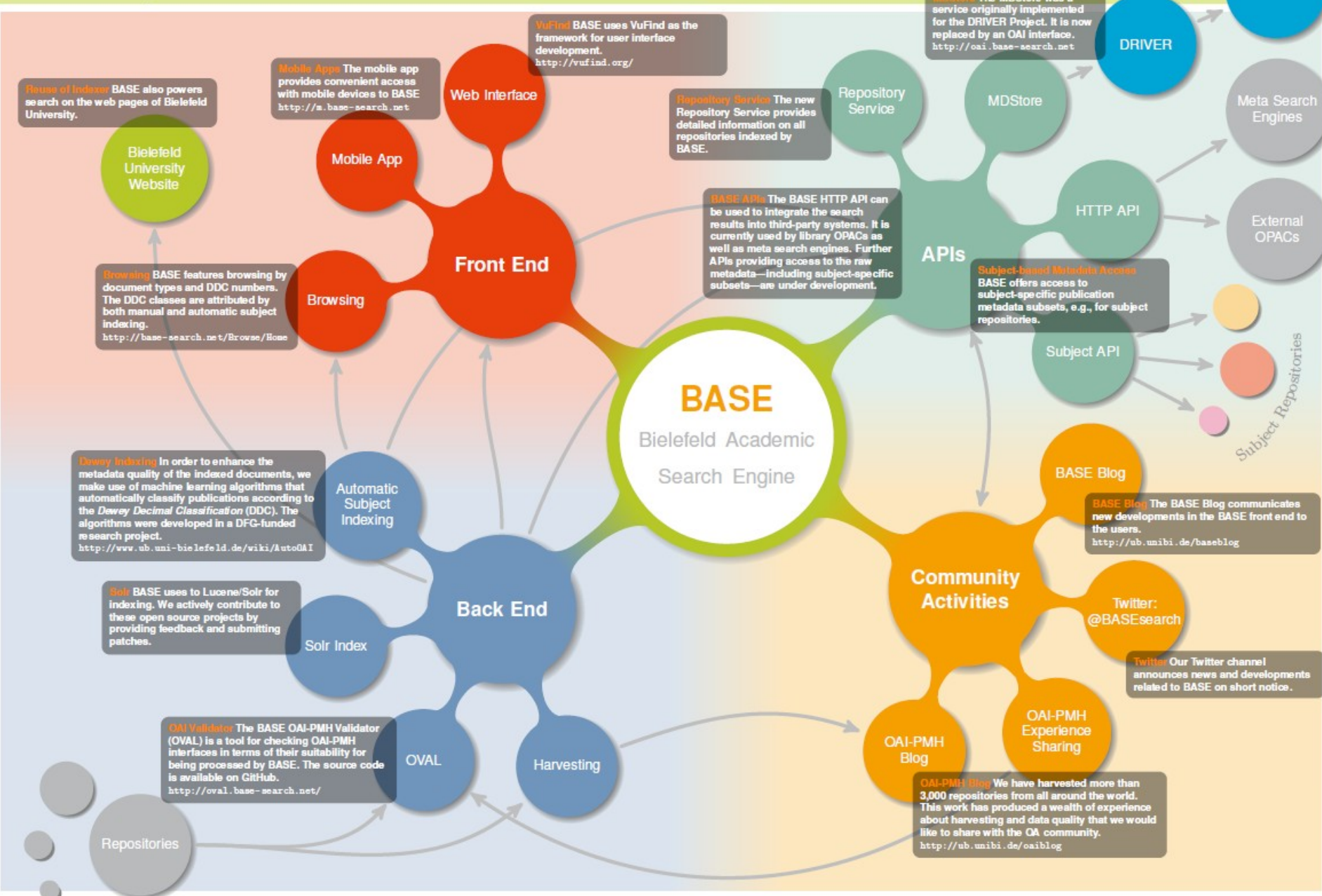
- Benefit of BASE: one search interface for nearly all repositories worldwide
- BASE increases visibility and usage of repositories
- Features: search history, drill down, result sorting, browsing, Web-App, display of OA-status (if possible), ...

Number of Documents / and Sources in BASE



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

BASE Components and Activities



2. BASE interfaces

- HTTP-website-integration (open)
- Search API (by request), used by german libraries
- Data providing (OAI-PMH, rsync, by request), used by several institutions and projects worldwide
- Metadata about repositories (API in preparation)

http://www.base-search.net/about/en/about_develop.php?menu=2

3. BASE OAI-PMH-Validator: OVAL

OVAL

BASE OAI-PMH Validator

Validate Repository

[About](#)

[Related Projects](#)

Contact

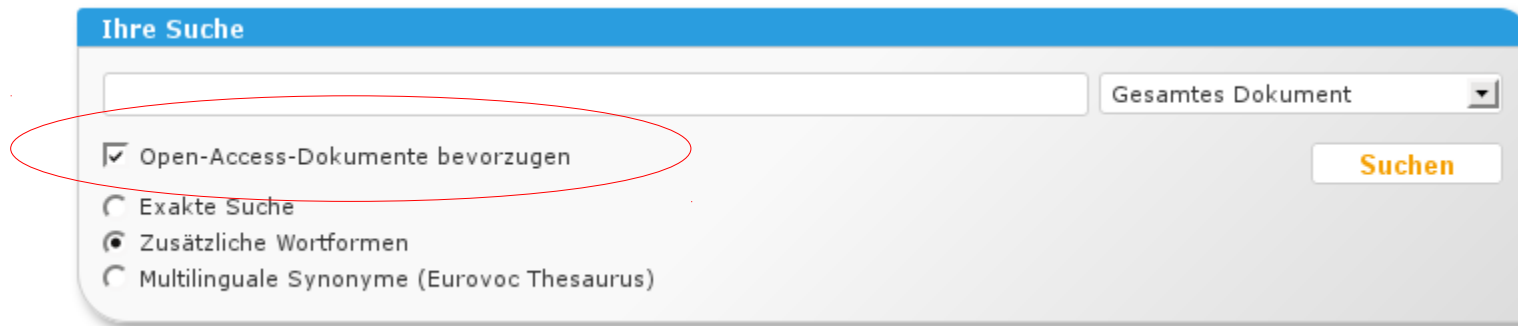
Original author: [Mathias Lösch](#)

Current maintainer: [Christian Pietsch](#)

3. BASE OAI-PMH-Validator: OVAL

- Helps repository managers to easily verify if their repository is compliant with OAI-PMH and BASE requirements
- <http://oval.base-search.net/>

4. Recent developments



The screenshot shows a search interface titled "Ihre Suche". It features a search input field, a dropdown menu set to "Gesamtes Dokument", and a "Suchen" button. Below the input field, there are four search options with radio buttons: "Open-Access-Dokumente bevorzugen" (checked), "Exakte Suche", "Zusätzliche Wortformen", and "Multilinguale Synonyme (Eurovoc Thesaurus)". A red oval highlights the "Open-Access-Dokumente bevorzugen" option.

Preferring OA documents by using OA setSpec-information in OAI-PMH metadata leads to different result lists

First list (results after query „inklusion“) without OA boosting

Second list (same query) with OA boosting

1. Inklusion og målopfyldelse

Titel:	Inklusion og målopfyldelse
Autor:	Engsig, Thomas Thyrring
Inhalt:	Bog anmeldelse af bogen Inklusion og målopfyldelse
Verlag:	Dafolo Forlag A/S
Erscheinungsjahr:	2014-05-17
Quelle:	Engsig, T T 2014 , ' Inklusion og målopfyldelse ' Paideia: tidsskrift for professionel pædagogisk praksis , nr. 7 , s. 50-51 .
Dokumentart:	article
Sprache:	dan
Schlagwörter:	Målopfyldelse ; inklusion
URL:	http://vbn.aau.dk/da/publications/inklusion-og-maalopfyldelse(6e55a470-8540-4c54-8456-caae327256f..
Datenlieferant:	Aalborg Univ.: Publikationer

 [In Google Scholar suchen](#)  [Als E-Mail versenden](#)  [Exportieren](#)  [Zu den Favoriten](#)

2. Inklusion og målopfyldelse

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Datenlieferant:	Aalborg Univ.: Publikationer

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3. Inklusion:En definition

Titel:	Inklusion :En definition
Autor:	Qvortrup, Lars
Verlag:	UCN Forlag
Mitwirkende:	Næsby, Torben
Erscheinungsjahr:	2012-11
Quelle:	Qvortrup, L 2012 , ' Inklusion : En definition ' , i T Næsby (red.) , Er du med? : om inklusion i dagtilbud og skole , vol. 5 , UCN Forlag , Aalborg , s. 5-16 . UCN Seriehæfte , nr. 5
Dokumentart:	contributionToPeriodical
Sprache:	dan
Schlagwörter:	Inklusion ; LSP
URL:	http://vbn.aau.dk/da/publications/inklusion(e2167ac5-9589-4496-aa7e-ba783578ae12).html http://www.ucn.dk/Forside/Forskning_og_udvikling/UCN_Forlag.aspx
Datenlieferant:	Aalborg Univ.: Publikationer

 [In Google Scholar suchen](#)  [Als E-Mail versenden](#)  [Exportieren](#)  [Zu den Favoriten](#)

4. Inklusion:En definition

Titel:	Inklusion :En definition
Autor:	Qvortrup, Lars
Verlag:	UCN Forlag

1. Inklusion in der Hochschule. Partizipation, Vielfalt und Verantwortung im Dialog



Open Access

Titel: **Inklusion** in der Hochschule. Partizipation, Vielfalt und Verantwortung im Dialog

Autor: [Erk, Jacqueline](#) ; [Knauf, Helen](#)

Inhalt: In den Feldern Schule und Kindertageseinrichtungen ist **Inklusion** in den letzten Jahren zu einem wichtigen Thema geworden. Wenn auch der Weg zu einer „Schule für Alle“ noch am Anfang steht, so gibt es doch bereits Konzepte und Modelle. Ganz anders sieht dies an Hochschulen aus. Inhaltlich wird in einigen Studiengängen bereits **Inklusion** als Thema ... [+ Alles anzeigen](#)

Verlag: Fulda ; Fachportal Pädagogik. DIPF

Erscheinungsjahr 2012

Quelle: Zeitschrift für **Inklusion** (2012) 1-2, [16] S.

Dokumentart: article ; Text ; updatedVersion

Sprache: deu

Schlagwörter: **Inklusion** ; Heterogenität ; Hochschule ; Hochschuldidaktik ; Hochschulentwicklung ; Frühpädagogik ; Inclusion ; Heterogeneity ; Higher education institute ; University didactics ; University development ; Early childhood education ; ddc:370 ; Erziehung ; Schul- und Bildungswesen ; Education ; Hochschulforschung und Hochschuldidaktik ; Pädagogik ... [+ Alle Schlagwörter anzeigen](#)

DDC: [370 Bildung und Erziehung](#) ; [370 Bildung und Erziehung](#) (computed)

Rechte: <http://www.pedocs.de/doku/urheberrecht.php?la=de>

URL: <http://nbn-resolving.de/urn:nbn:de:0111-opus-65780>

<http://www.pedocs.de/volltexte/2012/6578/> [+ Alle URLs anzeigen](#)

Datenlieferant: [pedocs-Dokumentenserver \(Host: Fachportal Pädagogik / DIPF\)](#)

[In Google Scholar suchen](#) [Als E-Mail versenden](#) [Exportieren](#)

2. Das soziale Menschenrecht auf Inklusion in Deutschland



Open Access

Titel: Das soziale Menschenrecht auf **Inklusion** in Deutschland

Autor: [Randhahn, Wulf](#)

Verlag: Saechsische Landesbibliothek- Staats- und Universitaetsbibliothek Dresden

Mitwirkende: Dr. iur. Wulf Randhahn

Erscheinungsjahr 2014-05-20

Dokumentart: doc-type:report

Sprache: deu

Schlagwörter: **Inklusion** ; Menschenrecht ; UN-BRK ; Behindertenrechtskonvention ; UN-Charta ; EU-Charta ; GHGB NW ; Sozialrecht ; Behinderung ; Pflege ; Blindengeld ; einkommens- und vermögensunabhängig ; Nachteilsausgleich ; Finanzierungsvorbehalt ; BSG ; Bundessozialgericht ; pflegebedürftig ; Assistenz ; Selbstbestimmung ; Sozialhilfe ; mittelbare Diskrimin... [+ Alle Schlagwörter anzeigen](#)

DDC: [310 Sammlungen allgemeiner Statistiken](#)

URL: <http://nbn-resolving.de/urn:nbn:de:bsz:14-qucosa-134848>

[urn:nbn:de:bsz:14-qucosa-134848](http://nbn-resolving.de/urn:nbn:de:bsz:14-qucosa-134848) [+ Alle URLs anzeigen](#)

Datenlieferant: [Sächsische Landesbibliothek - Staats- und Universitätsbibliothek Dresden \(SLUB\): Qucosa](#)

[In Google Scholar suchen](#) [Als E-Mail versenden](#) [Exportieren](#)

3. Sven Opitz : An der Grenze des Rechts. Inklusion/Exklusion im Zeichen der Sicherheit



Open Access

Titel: Sven Opitz : An der Grenze des Rechts. **Inklusion/Exklusion** im Zeichen der Sicherheit

Autor: [Schweitzer, Doris](#)

Erscheinungsjahr 2012

Dokumentart: doc-type:review

Sprache: deu

Schlagwörter: Rechtssoziologie ; Systemtheorie ; Dekonstruktion ; Sicherheit ; ddc:300

DDC: [300 Sozialwissenschaften](#)

Rechte: <http://kops.ub.uni-konstanz.de/depositlicense2011>

Beziehungen: An der Grenze des Rechts : Inklusion/Exklusion im Zeichen der Sicherheit / Sven Opitz. - Weilerswist : Velbrück Wissenschaft, 2012. - ISBN 978-3-942393-34-8

URL: <http://nbn-resolving.de/urn:nbn:de:bsz:352-244510>

Datenlieferant: [Universität Konstanz: Konstanzer Online-Publikations-System \(KOPS\)](#)

[In Google Scholar suchen](#) [Als E-Mail versenden](#) [Exportieren](#)

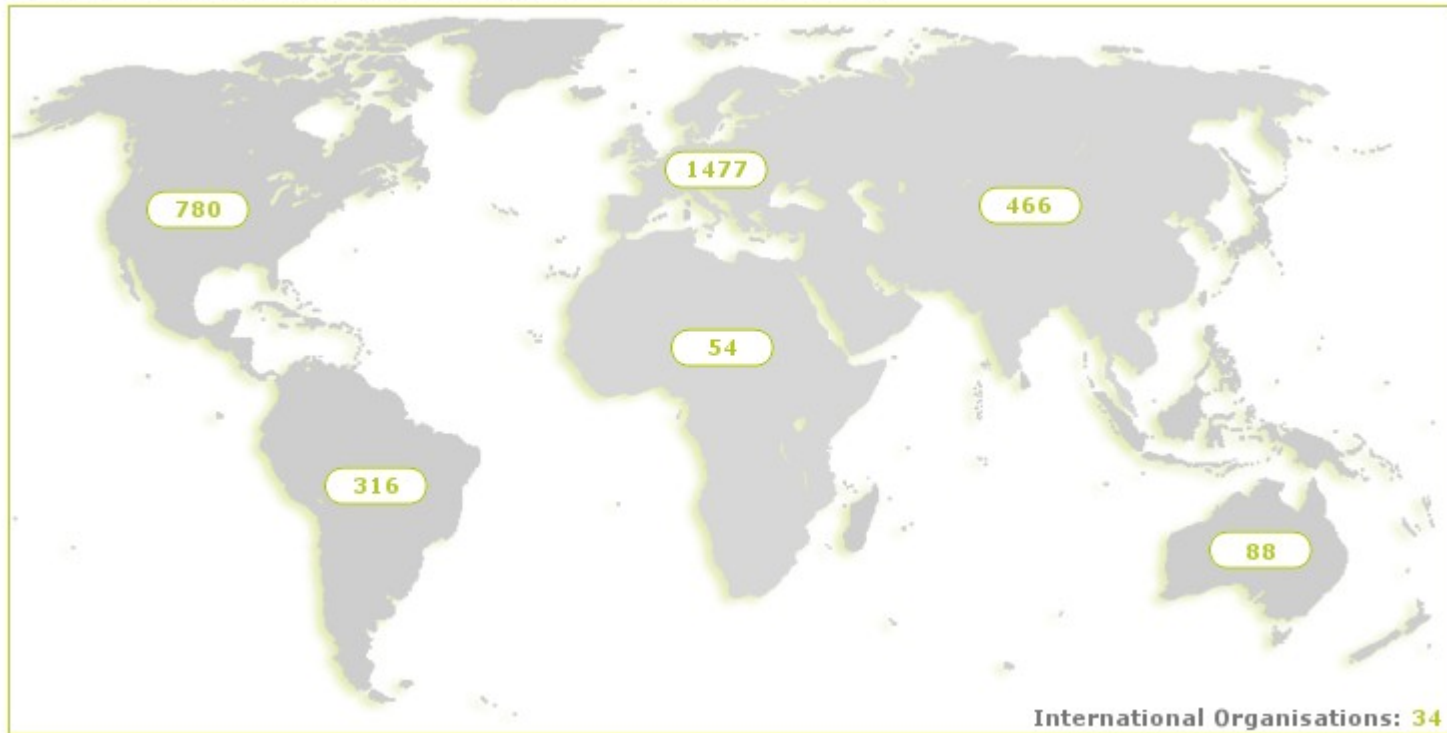
4. Inklusion – Exklusion. Eine historische und begriffliche Annäherung an die soziale Frage der Gegenwart

4. Recent developments

- Analysing dcrights-information to improve OA-boosting (if no OA setSpec information available)
- API-improvements
- Preparing migration from Solr to Elastic Search
- Considering other metadata formats than DC (e.g. MARC, MODS, ...)
- Adding additional identifiers in the future (e.g. ORCID)
- Enriching with Linked Open Data

5. Repositories worldwide and Chinese Repositories via BASE

Sources indexed by BASE world wide by continent: (3215 in total)



Any Subject Area
Any Content Type
Any Repository Type

China (39)
Any Language
Any Software

Summaries 20 per page.
Sort by: Repository Name

To search the *contents* of the repositories listed in OpenDOAR, please see our [Content Search](#) page.

Results 1 - 20 of 39.  [RSS1 Feed for this Query](#)

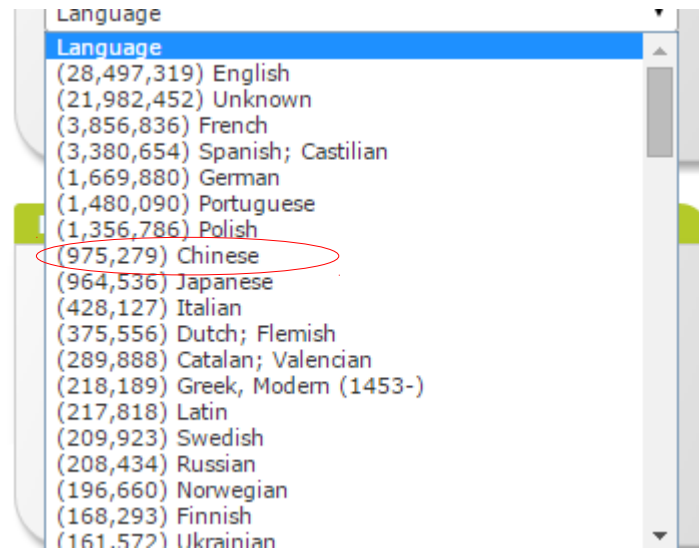
Page: << Previous 1 2 Next >>

[CityU Institutional Repository](#)**Organisation:** [Run Run Shaw Library, City University of Hong Kong](#) (香港城市大學), China**Description:** This is an institutional repository preserving the scholarly output of the University community. This repository mainly contains theses and dissertations.**OAI-PMH:** <http://dspace.cityu.edu.hk/oai/request>**Software:** DSpace**Size:** 3949 items (2014-10-30)**Subjects:** Multidisciplinary**Content:** Articles; Theses; Special**Languages:** English**Policies:** Metadata re-use policy explicitly undefined; Full data item policies explicitly undefined; Content policies explicitly undefined; Submission policies explicitly undefined; Preservation policies explicitly undefined**Remarks:** Special items include student final year projects.**OpenDOAR ID:** 1017, Last reviewed: 2012-09-11, [Suggest an update for this record](#), Missing data is needed for: [Policies](#)Link to this record: <http://opendoar.org/id/1017/>[HKIEd Research Repository](#)**Organisation:** [Hong Kong Institute of Education](#), China**Description:** This site provides access to research output of the institution. Some items are not available as full-text. The interface is available in English.**Software:** DSpace**Size:** 14530 items (2014-10-30)**Subjects:** Ecology and Environment; Mathematics and Statistics; Arts and Humanities General; Language and Literature; Philosophy and Religion; Social Sciences General; Education; Law and Politics; Psychology**Content:** Articles; References**Languages:** Chinese; English**Policies:** Metadata policies unknown; Full data item policies unknown; Content policies defined; Submission policies defined; Preservation policies explicitly undefined

5. Repositories worldwide and Chinese Repositories via BASE

Chinese Academy of Sciences: Knowledge Repository of CAS / 中国科学院合肥物质科学研究院		3.301	cn	2014-03-24
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		5.918	cn	2014-01-07
Peking University Institutional Repository (PKU IR) / 北京大学机构知识库		27.801	cn	2013-10-01
Xiamen University Institutional Repository / 厦门大学学术典藏库		77.584	cn	2010-02-23
seeKSpace: Environmental and Ecological Science Data Center for West China / 中国西部环境与生态科学数据库		44.712	cn	2009-01-16
Hong Kong Museum of Education: Image Database		4.220	hk	2014-04-16
International Academic Press (IAPress)	🔗 [100%]	26	hk	2014-01-10
Chinese University of Hong Kong: Chinese Rare Book Digital Collection / 中國古籍庫	🔗 [100%]	534	hk	2013-10-28
Journal of Computing & organisational dynamics	🔗 [100%]	10	hk	2013-04-18
Digital Commons @ Lingnan University / 嶺南大學		5.565	hk	2013-01-11
Hong Kong Polytechnic University: PolyU Institutional Repository (PolyU IR)		6.701	hk	2012-05-02
The Electronic Journal of Information Systems in Developing Countries (City University of Hong Kong)		459	hk	2010-05-20
Hong Kong Baptist University: HKBU Institutional Repository		4.644	hk	2010-04-30
University of Hong Kong: HKU Scholars Hub		117.413	hk	2008-07-07
City University of Hong Kong: CityU Institutional Repository		3.944	hk	2008-03-10
The Hong Kong University of Science and Technology: HKUST Institutional Repository		7.653	hk	2008-03-06

5. Repositories worldwide and Chinese Repositories via BASE



Language	Count
Language	
English	28,497,319
Unknown	21,982,452
French	3,856,836
Spanish; Castilian	3,380,654
German	1,669,880
Portuguese	1,480,090
Polish	1,356,786
Chinese	975,279
Japanese	964,536
Italian	428,127
Dutch; Flemish	375,556
Catalan; Valencian	289,888
Greek, Modern (1453-)	218,189
Latin	217,818
Swedish	209,923
Russian	208,434
Norwegian	196,660
Finnish	168,293
Ukrainian	161,572

5. Repositories worldwide and Chinese Repositories via BASE

- More than 3.200 repositories included
- From 101 countries world-wide
- 16 repositories from China and Hong Kong (we know, there are a lot more ...)
- About 66 Mill. documents
- About 70% open accessible
- About 10.1 Mill. documents enriched with DDC-Code

6. How to make Chinese Repositories visible through BASE

- BASE scope:
 - Academic valuable content
 - Focus on IR, Aggregators and Subject Repositories
 - Electronic Journals
 - Digital Collections
 - Dataset Repositories

6. How to make Chinese Repositories visible through BASE

- Minimum requirements:
 - OAI-PMH interface (available)
 - OA is supported (at least some documents should be open accessible world-wide!)
 - DC Metadata (basic set of field contents)
 - Operable URL for the document landing page

6. How to make Chinese Repositories visible through BASE

- Please ...
 - Register your IR (OpenDOAR, Open Archives ...)
 - Deliver OA-Status on document or repository level
 - Make your metadata compatible to Guidelines
 - Use vocabularies (for type, language, date, classification etc.)
 - Provide an english end-user interface
 - Deliver Abstract information in english if possible
 - Deliver repository contact information

6. How to make Chinese Repositories visible through BASE

- Please avoid ...
 - Wrong Document URLs (a specific Dspace problem with non-configured links as `<dc:identifier>http://hdl.handle.net/123456789/87639</dc:identifier>`)
 - Empty Records
 - Invalid XML
 - Crashing Harvest Processes
 - Changing OAI-PMH basicurls without dissemination/redirect available)

7. Academic documents in the web

Khabsa M, Giles CL (2014) The Number of Scholarly Documents on the Public Web. PLoS ONE 9(5): doi:10.1371/journal.pone.0093949

- Web of Science 2013: 49,4 million records
- Microsoft Academic 2013: 48,7 million records
- BASE 2013: 55 million records
- Google Scholar: unknown

7. Academic documents in the web

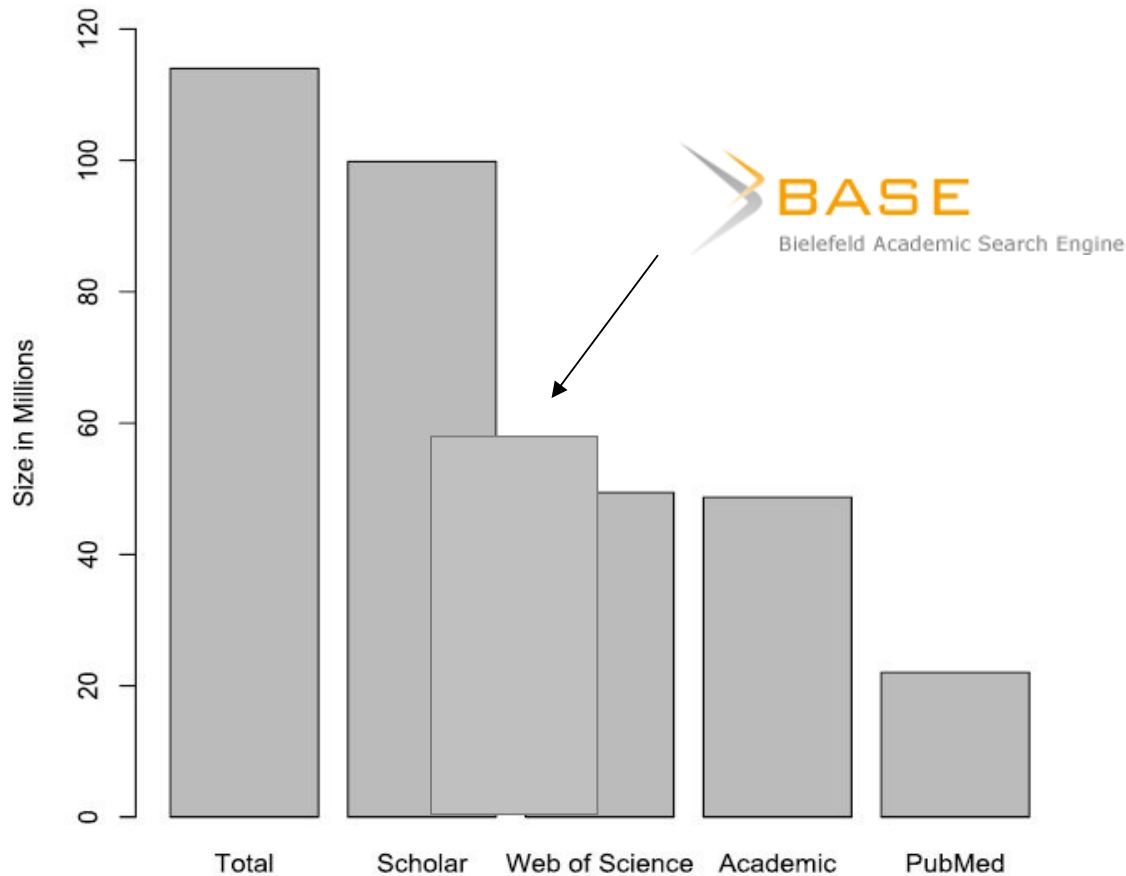


Figure 2. Relative number of documents by scholarly search engines and databases. Total and Google Scholar are estimates.
doi:10.1371/journal.pone.0093949.g002 BASE added by Pi

„Let us increase the number of academic OA documents together and let us increase the visibility of Chinese academic output worldwide!“

Thank you:

Dirk Pieper
Friedrich Summann