

Going for the ²

Alexander Wagner, for JOIN²

DZNE

Bonn, 25.09.2015



Overview



- > Who is **JOIN²**
- > What is **JOIN²**
- > The ² in **JOIN²**



Part I: Who is



Partner



Deutsches Elektronensynchrotron, Zentralbibliothek

≈ 2000 + 3000



Forschungszentrum Jülich, Zentralbibliothek

≈ 5000 + 1000

GSI Helmholtzzentrum für Schwerionenforschung, Bibliothek + Base-IT

≈ 1050

Deutsches Krebsforschungszentrum, Bibliothek

≈ 3000

JOIN²: Open for new partners!

≈ 300 + 1000

Online for ≈ **20.000** staff members

≈ 9000

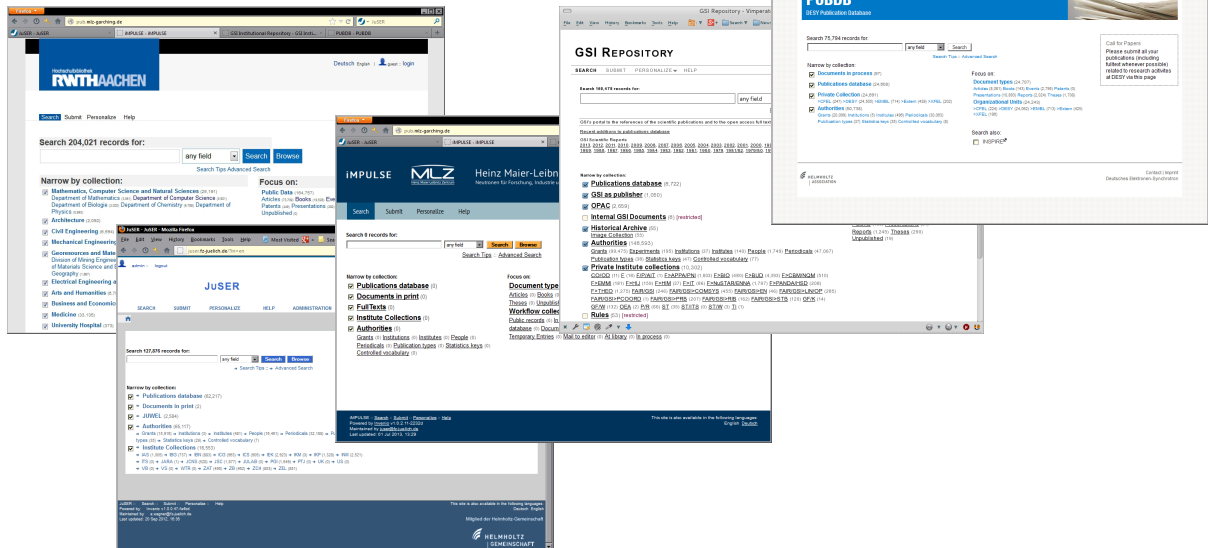
+ ≈ 5000 visiting scientists

(≈ 310.000 records, ≈ 30.000 OpenAccess + 150.000 authorities)

JuSER ranked global No.6 of all German repositories in OARR 2015



Installations



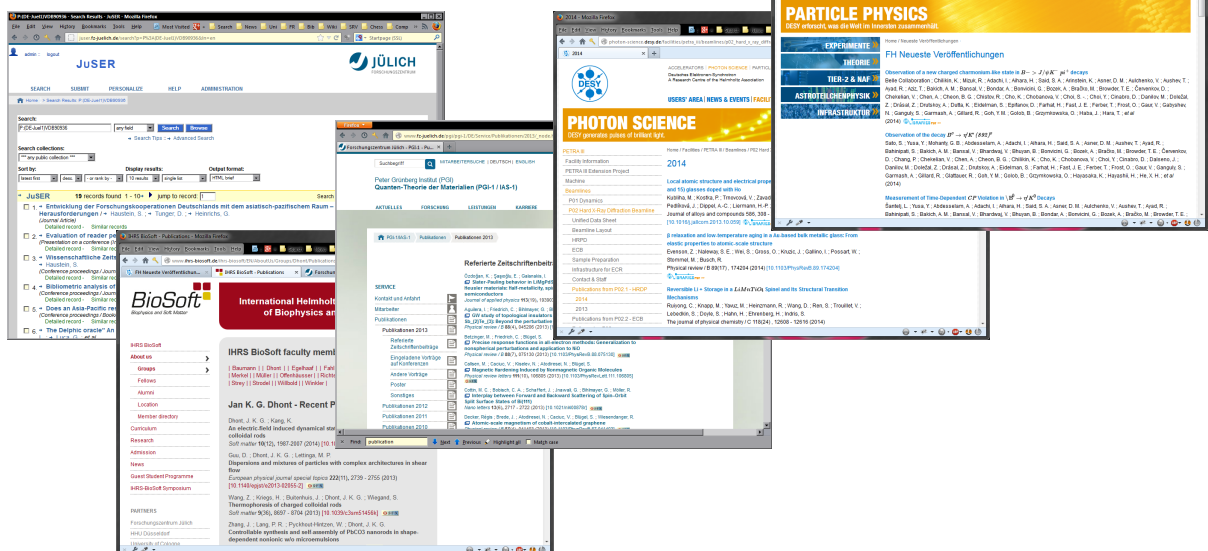
Largest productive invenio installation in Germany
Individual instances, powered by the partners and their IT



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Weboutput — CMS



Integrate: think database + CMS

Publication lists need data as detailed as for evaluations...

(aid, cid, fai pof, pub, sid, typ ...)



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Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome - JuSER - Mozilla Firefox

File Edit View History Bookmarks Tools Help Most Visited Search News Uni FR Bib Wiki SRV Chess Comp >> Startpage (SSL)

admin :: Abmelden

JuSER

SUCHEN ABSENDEN PERSONALISIEREN HILFE VERWALTUNG

Hauptseite > Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome

Information Diskussion Dateien Plots

Journal Article FZJ-2012-00157

Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome

→ Pieperhoff, Peter^{*} ; → Ferrea, Stefano ; → Krause, Holger ; → Groiss, Stefan Jun ; → Elben, Saskia ; → Wojtecki, Lars ; → Zilles, Karl^{*} ;
→ Amunts, Katrin^{*} ; → Schnitzler, Alfons ; → Südmeier, M (Corresponding author)

2012
PLoS Lawrence, Kan.

Published in: → PLoS one 7 (7) e41873 - → [10.1371/journal.pone.0041873] → 

→ Pubmed; →  Pubmed Central Fulltext;
→ Web of Science (WOS); → Citing articles (WOS); → Related articles (WOS)

Report No.: FZJ-2012-00157

Abstract: Corticobasal syndrome (CBS) is a rare neurodegenerative disorder characterized by a progressive and asymmetric manifestation of cortical and basal-ganglia symptoms of different origin. The spatiotemporal dynamics of cerebral atrophy in CBS is barely known. This study aimed to longitudinally quantify the individual dynamics of brain volume changes in patients with CBS as compared

Contributing Institute(s):

- Strukturelle und funktionelle Organisation des Gehirns (INM-1)
- Zentralbibliothek (ZB)

Research Program(s):

- 332 - Imaging the Living Brain (POF2-332) (Gesundheit)

Appears in the scientific report → 2012

Database coverage:

JOIN² .

Part II: What is



Just anOther Invenio iNstallation to join

JOIN² strives to deliver a publication database that

- > is centred around **scientists** needs (e. g. reusable citations, private areas)
- > makes **achievements visible** (e. g. by integrating with other systems)
- > is **easy to use**, while ensuring a **high data quality**
- > requires a **small footprint** (for operation and curation)
- > is adoptable to local needs, while enabling **data exchange**
- > allows progress reporting

Every **unwritten** line of **code** is a **good** line of code.



Digital Library Software

The flexibility and performance of **INVENIO** make it a comprehensive solution for [...] document repositories [...] to **large sizes** (several millions of records).

- > Based on **Marc Bibliographic** (international standard)
- > **JOIN²**: Workflow (privilege escalation)
- > **JOIN²**: Marc-**Authority** to normalize data
 - bibliographic entries (e. g. Journals)
 - institutes (Predecessors, successors, tops, virtuals...)
 - authors (also for ATLAS...)
 - grants (HGF aka POF, EU, DFG, BMBF...)
 - statistic keys (e. g. for evaluation)
 - vocabulary (e. g. licences, keywords)



JOIN²— Main features

- > Import interfaces (ease up input, improve data quality)
- > Exports to BibTeX/EndNote/RIS (Integrate with citations management)
- > **Institute collections** (collect and share documents)
- > Handle full texts and small data (local and OpenAccess, OpenAIRE )
- > Normalize as much as possible (Key: Authorities)
 - **Authors** (tell apart Meier and Meier)
 - Institutes
 - Journals
 - Projects (POF, EU, ...)
 - ...

...Users don't need to care about technical details ...



Collections

- > Publicationsdatabase
- > Documents in Print:
 - approved by institutes editor
 - not yet checked by the library
 - e. g. papers “just available Online” (missing bibliographic data e. g. pages, volume)
 - already visible on institutes web pages
- > OpenAccess repository (OpenAIRE )
- > **Institute Collections:**
 - Institutes **private** workspace
 - e. g. drafts, collected literature, journal clubs ...
 - Access for members of the institute only
- > Authorities

Note: on Google nobody drills down first...



What are Authority records?

> Reasons for a publication database:

- 1 Visibility (includes search engines, OpenAIRE, BASE...)
- 2 Publication lists (Web, reports, PR)
- 3 Document collections (incl. private areas)
- 4 Search & Browse (via database homepage)
- 5 Reporting (HGF, EU, Funders...)

> Authorities:

- unify and normalize spelling (still, names are but sound and smoke...)
- allow for “exact matches” (based on unique IDs)

Authorities are the **enabling infrastructure**



Institute Collections

JOIN² can hold documents **beyond own publications**

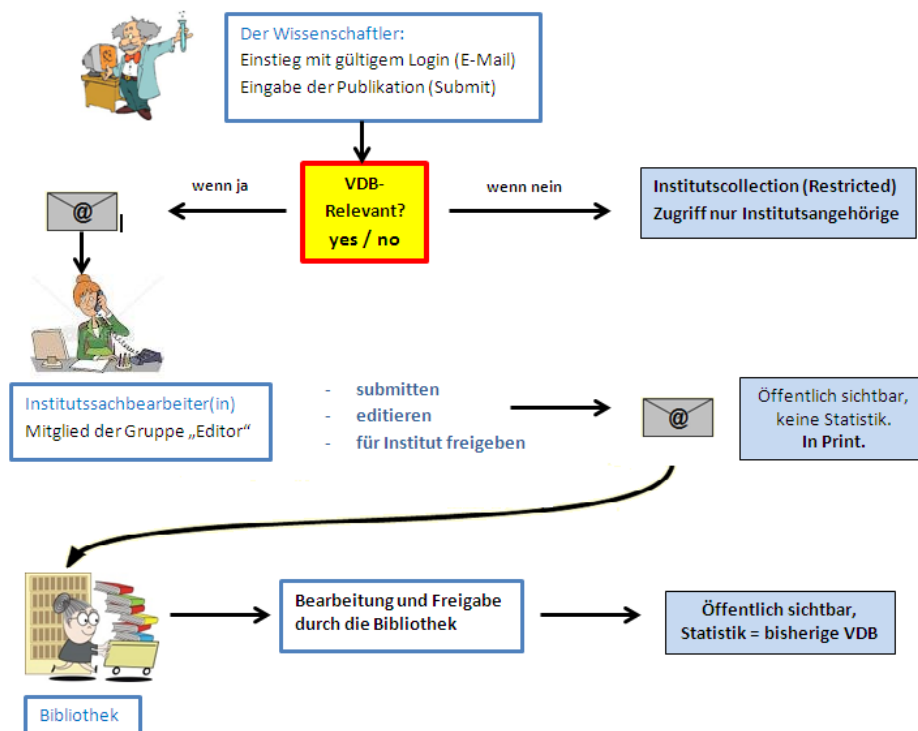
- > **webbased** literature management
- > document **exchange** at the institutes
- > **centralized collection** of papers
- > **easy export** to formatting tools (BibTeX, EndNote, RIS)
- > commenting (individual and in group)

Institute collections

- > require login
- > Non-VDB items do **not** show up on the webpage
- > are **private** to the institute



Three step Workflow



Thanks to H. Lexis



Modify Record - PUBDB - Mozilla Firefox

https://bib-pubdb1.desy.de/submit?startPg=1&sub=MBIconf&ln=en&doctype=conf&mainmenu=https%3A%2F%2Fbib-pubdb1

Modify Record - PUBDB

Group(s) involved *

L: Bibliothek und Dokumentation

Select or type in name, shortcut (e.g. ATLAS, FS-PE, MKK)

Beamline/Experiment/Facility (Automatically assigns Grants) *

899 - ohne Topic (POF II: 2009 - 2014)

Select PETRA beamline, HERA, facility machine,...

Grant name / Proposal No.

899 - ohne Topic (POF II: 2009 - 2014)

EU project, FS proposal number (e.g. I-20120768)

Report Number

DESY-THESIS-001, arXiv-No.

Author(s) / Contributor(s) *

Wagner, Alexander -> Wagner, Alexander (>Extern / L|L) Author

Start typing lastname and select...

Title *

Repositorien als Forschungsinfrastruktur

Title preview:

Repositorien als Forschungsinfrastruktur

University

Fachhochschule Köln

Type of Talk

Invited

Language

German

Conference name *

OpenAccess Tage 2014

Acronym

OAT2014

City *

Köln

Country *

Germany

Begin *

09/08/2014

End *

09/09/2014

Import

> DOI: insert doi or dx.doi.org-url (e. g. 10.1016/j.physletb.2006.11.038)

> pubmed : copy as displayed (e. g. PMID: 20923669)

Journal Article

Import data ⓘ VDB Relevant →

Institute(s) ⓘ

Grant Name ⓘ

this import

Import data:

Ultra-precision engineering: from physics to manufacturing / Jiang, X. J. ; Philosophical transactions of the Royal Society of London / A 370 3831 - 3834 ; London : Soc., 2012 ; 10.1098/rsta.2012.0178 ;

Import Discard



Duplicate entries

Import data:

Architecture and organizational principles of Broca's region / Amunts, Katrin ; Trends in cognitive sciences 16 418 - 426 ; Amsterdam [u.a.] : Elsevier Science, 2012 ; 10.1016/j.tics.2012.06.005 ;

Potential duplicate record(s):

- → 130491

Import Discard

At import via doi, pmid, arXiv...

- > identify potential duplicates
- > refuse import
- > show links to the potential dupes



E. g. DOI Import

Journal Article

Import data **VDB Relevant** ☒ yes ☐ no **Supported by FZJ-Employee** ☐ yes ☐ no

Institute(s) **R&D Section**

Grant Name

Author(s)

Jiang, X. J. (Extern) Corresponding author	✓	✕
Shore, P. (Extern) Author	✓	✕
McKeown, P. (Extern) Author	✓	✕
Whitehouse, D. J. (Extern) Author	✓	✕
Ruffles, P. C. (Extern) Author	✓	✕

Title Ultra-precision engineering: from physics to manufacturing

Journal Philosophical transactions of the Royal Society of London / A **DOI** 10.1098/rsta.2012.0

Volume 370 **Issue** 1973 **Pages** 3831 - 383

Publication Year 2012 **Language**

Conference name **Acronym** **City**

Country **Begin** **End** **Publisher** Soc. **Publisher's City** London

Abstract

Most red fields are filled in already!



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JOIN²

Part III: The ² in



Does and Don'ts

> JOIN² does offer

- Data infrastructure (required authorities)
- Code infrastructure (OpenSource)
- Shared development of improvements (Combined resources)
- Community based support
- Non-Profit / Non-Commercial approach

> JOIN² does not offer

- Commercial support
- Development upon request
- Service contracts

JOIN² is a GNU based community project



Requirements for Partners

1 Institutional:

- wish, to join and be a partner
- will, to contribute and adopt (we will find something suitable...)
- based upon GNU public licence v2 or later

2 Technical:

- run own server (Linux, FreeBSD)
- install locally
- migrate old system (if necessary)
- git:  GitHub, issue tracking
- python
- CSS (or a webdesigner at hand)
- JavaScript, HTML, XML (helpful)

JOIN² uses shared infrastructures



Challenge

same code, consistent on different instances

- > git: `invenio` ( GitHub)
 - base system
- > git: `join2` ( GitHub, currently private)
 - JOIN² overlay
 - setup routines for roll-out (e. g. collections, rolles, doctypes...)
 - configuration scripts and public configurations
- > git: `join2-privat` (centrally kept at DESY)
 - instances private configs (e. g. containing mail addresses)
 - non-publicly shareable code



InstallInvenio

InstallInvenio

handles the gits and sets up the `instance` at each partner in the proper layout including all `global` (JOIN²) and `local` adoptions.

- > assumes an **INVENIO**-ready server (dependencies, database exists)
- > sets up `from scratch` or to a given point
- > compiles and installs **INVENIO**-src
- > applies JOIN² overlay
- > applies global and local customizations
- > procedures based upon GUI functionality
- > no need to mouse click in the GUI
- > enables disaster recovery
- > allows setup of an identical test environment



Local Adoptions

- > Hook up with local login system
- > Generate local authority records (people, grants, institutes)
- > Adopt CSS to reflect local requirements
- > Load migrated data

JOIN² will offer help to do it



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People behind JOIN²

- | | |
|-------------------------------------|----------------------------------|
| > Dagmar Sitek ^a | > Cornelia Plott ^f |
| > Gudrun Friedburg ^a | > Christoph Holzke ^f |
| > Martin Köhler ^b | > Jürgen Neuhaus ^g |
| > Zaven Akopov ^{i,1} | > Connie Hesse ^g |
| > Tomasz Pazera ^{b,1} | > Björn Pedersen ^g |
| > Robert Thiele ^b | > Jörg Pulz ^g |
| > Alexander Wagner ^{f,b} | > Ulrike Eich ^h |
| > Katrin Große ^d | > Louai Barake ^h |
| > Stefan Hesselbach ^e | > Abdoulaye Diallo ^h |
| > Bernhard Mittermaier ^f | > Roland Rappmann ^h |
| > Anna Fründ ^f | > Dominik Schmitz ^h |
| > Heike Lexis ^f | > Edmund Wollgarten ^h |

^a DKFZ Zentralbibliothek, ^b DESY Library and Documentation, ^c Project Inspire, ^d GSI Library, ^e GSI Core IT, ^f Forschungszentrum Jülich, Zentralbibliothek, ^g MLZ Garching, ^h RWTH Aachen, Hochschulbibliothek, ⁱ European XFEL, ¹ (retired)

plus a little help from our friends

CERN Library, CERN IT, INSPIRE



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Thank you!



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