

# JOIN<sup>2</sup>.

## Going for the <sup>2</sup>

Alexander Wagner, for JOIN<sup>2</sup>

DZNE

Bonn, 25.09.2015



## Overview



- > Who is JOIN<sup>2</sup>
- > What is JOIN<sup>2</sup>
- > The <sup>2</sup> in JOIN<sup>2</sup>



# JOIN<sup>2</sup>

## Part I: Who is



## Partner



**JÜLICH**  
FORSCHUNGSZENTRUM



**RWTHAACHEN**  
HOCHSCHULBIB



Deutsches Elektronensynchrotron, Zentralbibliothek

≈ 2000 + 3000



Forschungszentrum Jülich, Zentralbibliothek

≈ 5000 + 1000



GSI Helmholtzzentrum für Schwerionenforschung, Bibliothek + Base-IT

≈ 1050



Deutsches Krebsforschungszentrum, Bibliothek

≈ 3000



**JOIN<sup>2</sup>: Open for new partners!**

≈ 300 + 1000

**RWTHAACHEN**  
HOCHSCHULBIB

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

The screenshot displays several institutional websites and search interfaces:

- RWTH AACHEN**: Shows a search interface for 204,021 records.
- IMPULSE**: Shows a search interface for 1,072,676 records.
- Heinz Maier-Leibnitz Zentrum**: Shows a search interface for 204,021 records.
- JuSER**: Shows a search interface for 1,072,676 records.
- GSI Repository**: Shows a search interface for 76,764 records.
- PUBOB**: Shows a search interface for 76,764 records.

Largest productive invenio installation in Germany

Individual instances, powered by the partners and their IT



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## Weboutput — CMS

The screenshot displays several institutional websites and search interfaces:

- JUSER**: Shows a search interface for 1,072,676 records.
- BioSoft**: Shows a search interface for 1,072,676 records.
- International Helmholtz Institute for Biophysics**: Shows a search interface for 1,072,676 records.
- PHOTON SCIENCE**: Shows a search interface for 1,072,676 records.

The screenshot shows the DESY website under the "PARTICLE PHYSICS" section:

- EXPERIMENT**: Observations of a new charged lepton candidate in the mass range  $m \sim 7-14$  GeV.
- TIER-2 & INFRASTRUCTURE**: Observation of a new charged lepton candidate in the mass range  $m \sim 7-14$  GeV.
- ASTROTELESCOPIC**: Measurement of the flux of gamma rays from the central bulge of our galaxy.
- INFRASTRUCTURE**: Measurement of the flux of gamma rays from the central bulge of our galaxy.

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

JUUSER

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] → SFX

→ Pubmed; → OPEN ACCESS 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 hardly known. This study aimed to longitudinally quantify the individual dynamics of brain volume changes in patients with CBS as compared

Contributing Institute(s):  
1. → Strukturelle und funktionelle Organisation des Gehirns (INM-1)  
2. → Zentralbibliothek (ZB)

Research Program(s):  
1. → 332 - Imaging the Living Brain (POF2-332) (Gesundheit)

Appears in the scientific report → 2012

Database coverage:

JOIN<sup>2</sup>

Part II: What is



# Just anOther Invenio iNstallation to join

**JOIN<sup>2</sup>** 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.



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## 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)
- > **JOIN<sup>2</sup>**: Workflow (privilege escalation)
- > **JOIN<sup>2</sup>**: 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)



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# JOIN<sup>2</sup>— 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  Validated)
- > 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 ...



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## 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  Validated)
- > Institute Collections:
  - Institutes private workspace
  - e. g. drafts, collected literature, journal clubs ...
  - Access for members of the institue only
- > Authorities

Note: on Google nobody drills down first...



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# 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



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## Institute Collections

**JOIN<sup>2</sup>** 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

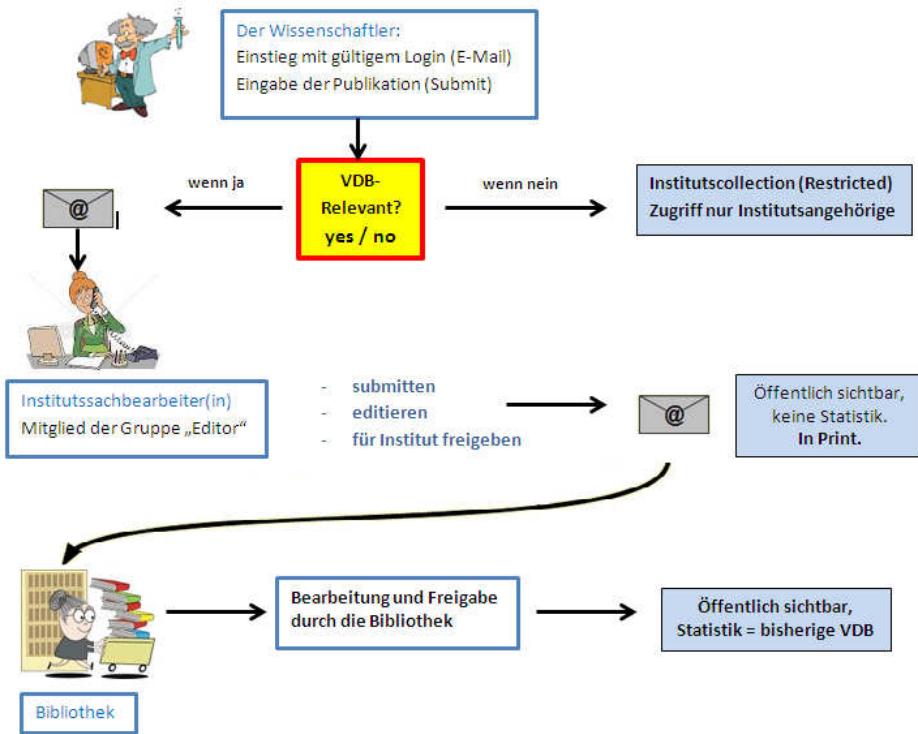
- > require login
- > Non-VDB items do not show up on the webpage
- > are private to the institute



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# Three step Workflow



Thanks to H. Lexis



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The screenshot shows the 'Modify Record - PUBDB - Mozilla Firefox' window. The form fields include:

- Group(s) involved \***: L: Bibliothek und Dokumentation
- Beamline/Experiment/Facility (Automatically assigns Grants) \***: 899 - ohne Topic (POF II: 2009 - 2014)
- Grant name / Proposal No. \***: 899 - ohne Topic (POF II: 2009 - 2014)
- Report Number**: DESY-THESIS-001, arXiv-No.
- Author(s) / Contributor(s) \***: Wagner, Alexander -> Wagner, Alexander (>Extern / L/L) Author
- Title \***: Repozitorien als Forschungsinfrastruktur
- Title preview**: Repozitorien als Forschungsinfrastruktur
- University**: Fachhochschule Köln
- Type of Talk**: Invited
- Language**: German
- Conference name \***: OpenAccess Tage 2014
- Acronym**: OAT2014
- City \***: Köln
- Begin \***: 09/08/2014
- End \***: 09/09/2014
- Country \***: Germany

# 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 ⓘ

ed (e. g. arxiv:hep-ph/0610431)

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.2012.0130

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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# JOIN<sup>2</sup>.

Part III: The <sup>2</sup> in  n<sup>2</sup>



# Does and Don'ts

## > JOIN<sup>2</sup> does offer

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

## > JOIN<sup>2</sup> does not offer

- Commercial support
- Development upon request
- Service contracts

**JOIN<sup>2</sup>** is a GNU based [community](#) project



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# 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: , issue tracking
- python
- CSS ([or a webdesigner at hand](#))
- JavaScript, HTML, XML ([helpful](#))

**JOIN<sup>2</sup>** uses shared infrastructures



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# Code repositories @ JOIN<sup>2</sup>

## Challenge

same code, consistent on different instances

- > git: **invenio** ()
  - base system
- > git: **join2** (, currently private)
  - **JOIN<sup>2</sup>** overlay
  - setup routines for roll-out (e. g. collections, roles, 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



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## InstallInvenio

### InstallInvenio

handles the gits and sets up the instance at each partner in the proper layout including all global (**JOIN<sup>2</sup>**) 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 **JOIN<sup>2</sup>** overlay
- > applies global and local customizations
- > procedures based upon GUI functionality
- > no need to mouse click in the GUI
- > enables desaster recovery
- > allows setup of an identical test environment



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# Local Adoptions

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

**JOIN<sup>2</sup>** will offer help to do it



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## People behind JOIN<sup>2</sup>

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

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

plus a little help from our friends

CERN Library, CERN IT, iNSPIRE



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# Thank you!



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