Mitglied der Helmholtz-Gemeinschaft

JÜLICH
FORSCHUNGSZENTRUM

Invenio@HGF – status and perspectives

[sic!] Jülich – 2nd Invenio User Group Workshop

Jülich, 18. November 2013 | Alexander Wagner, for the Collaboration

Overview

- Partner
- Initial TODO
- Accomplishments
- Lessons learned
- Project group

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Project Partners

	Deutsches Elektronensynchrotron, Zentralbibliothek	$\approx 2000 + 3000$
	Forschungszentrum Jülich, Zentralbibliothek	$\approx 5000 + 1000$
	GSI Helmholtzzentrum für Schwerionenforschung, Biblitohek + Kern-IT	≈ 1050
	Maier-Leibniz-Zentrum, Garching	≈ 300
	RWTH Aachen, Hochschulbibliothek	≈ 9000
	Museum Zitadelle Jülich	
	Institut für Experimentelle Kernphysik, Karlsruhe	

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Open for new Partners!

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Open for new Partners!

Serving now $\approx$ **17.000** people (+ visitors)

($\approx$ 260.000 documents + 67.000 Authorities)

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Starting out

Goal

Replace existing systems, at GSI build up from scratch.
User-centric design (users aka scientists)

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with different data sets and keep them consistent on code level

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Initial ToDo

- Design the system around web based literature management

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- Design a document workflow

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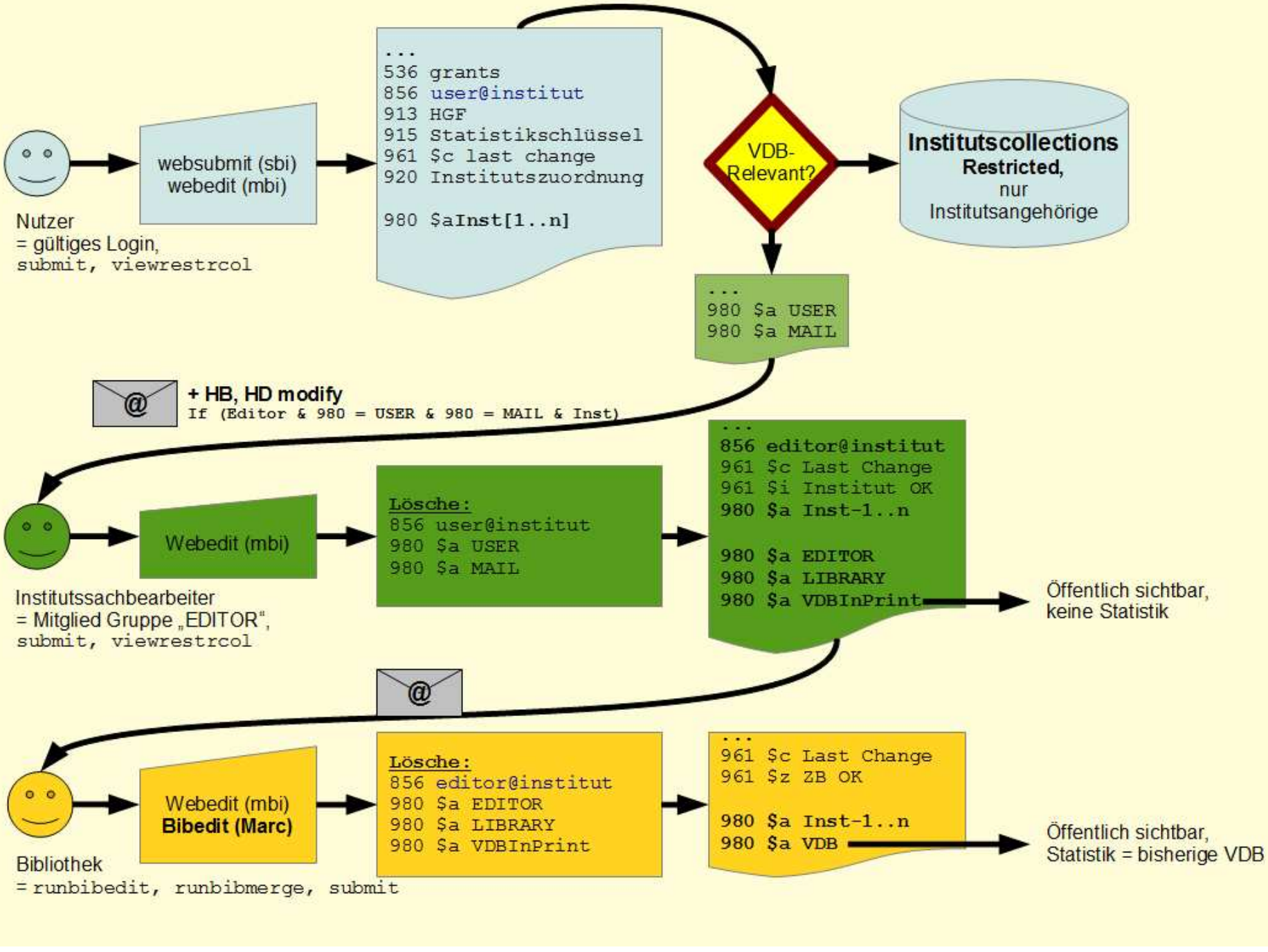
Nutzer
= gültiges Login,
submit, viewrestrcol
websubmit (sbi)
webedit (mbi)
...
536 grants
856 user@institut
913 HGF
915 Statistikschlüssel
961 $c last change
920 Institutszuordnung
980 $aInst[1..n]
VDB-Relevant?
Institutscollections
Restricted,
nur
Institutsangehörige
...
980 $a USER
980 $a MAIL
+ HB, HD modify
If (Editor & 980 = USER & 980 = MAIL & Inst)
Institutssachbearbeiter
= Mitglied Gruppe „EDITOR“,
submit, viewrestrcol
Webedit (mbi)
Lösche:
856 user@institut
980 $a USER
980 $a MAIL
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856 editor@institut
961 $c Last Change
961 $i Institut OK
980 $a Inst-1..n
980 $a EDITOR
980 $a LIBRARY
980 $a VDBInPrint
Öffentlich sichtbar,
keine Statistik
Bibliothek
= runbibedit, runbibmerge, submit
Webedit (mbi)
Bibedit (Marc)
Lösche:
856 editor@institut
980 $a EDITOR
980 $a LIBRARY
980 $a VDBInPrint
...
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Öffentlich sichtbar,
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- Migrate old data (various, proprietary sources)
- Train the inputters and users (secretaries, scientists, librarians)
- Hook up with content management system(s) (visibility!)

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Referierte Zeitschriftenbeiträge 2013

SERVICE
Kontakt und Anfahrt
Mitarbeiter
Publikationen
Publikationen 2013
Referierte Zeitschriftenbeiträge
Eingeladene Vorträge auf Konferenzen
Andere Vorträge
Poster
Sonstiges
Publikationen 2012
Publikationen 2011
Publikationen 2010

Özdoğan, K. ; Şaşıoğlu, E. ; Galanakis, I.
Slater-Pauling behavior in LiMgPdSn-type multifunctional quaternary Heusler materials: Half-metallicity, spin-gapless and magnetic semiconductors
Journal of applied physics **113**(19), 193903 - (2013) [10.1063/1.4805063]

Aguilera, I. ; Friedrich, C. ; Bihlmayer, G. ; Blügel, S.
GW study of topological insulators Bi_{2}Se_{3}, Bi_{2}Te_{3}, and Sb_{2}Te_{3}: Beyond the perturbative one-shot approach
Physical review / B **88**(4), 045206 (2013) [10.1103/PhysRevB.88.045206]

Betzinger, M. ; Friedrich, C. ; Blügel, S.
Precise response functions in all-electron methods: Generalization to nonspherical perturbations and application to NiO
Physical review / B **88**(7), 075130 (2013) [10.1103/PhysRevB.88.075130]

Callsen, M. ; Caciuc, V. ; Kiselev, N. ; Atodiresei, N. ; Blügel, S.
Magnetic Hardening Induced by Nonmagnetic Organic Molecules
Physical review letters **111**(10), 106805 (2013) [10.1103/PhysRevLett.111.106805]

Cottin, M. C. ; Bobisch, C. A. ; Schaffert, J. ; Jnawali, G. ; Bihlmayer, G. ; Möller, R.
Interplay between Forward and Backward Scattering of Spin–Orbit Split Surface States of Bi(111)
Nano letters **13**(6), 2717 - 2722 (2013) [10.1021/nl400878r]

Decker, Régis ; Brede, J. ; Atodiresei, N. ; Caciuc, V. ; Blügel, S. ; Wiesendanger, R.
Atomic-scale magnetism of cobalt-intercalated graphene
Physical review / B **87**(4), 041403 (2013) [10.1103/PhysRevB.87.041403]

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- Get it up and running (First Light: 11/19/2012)

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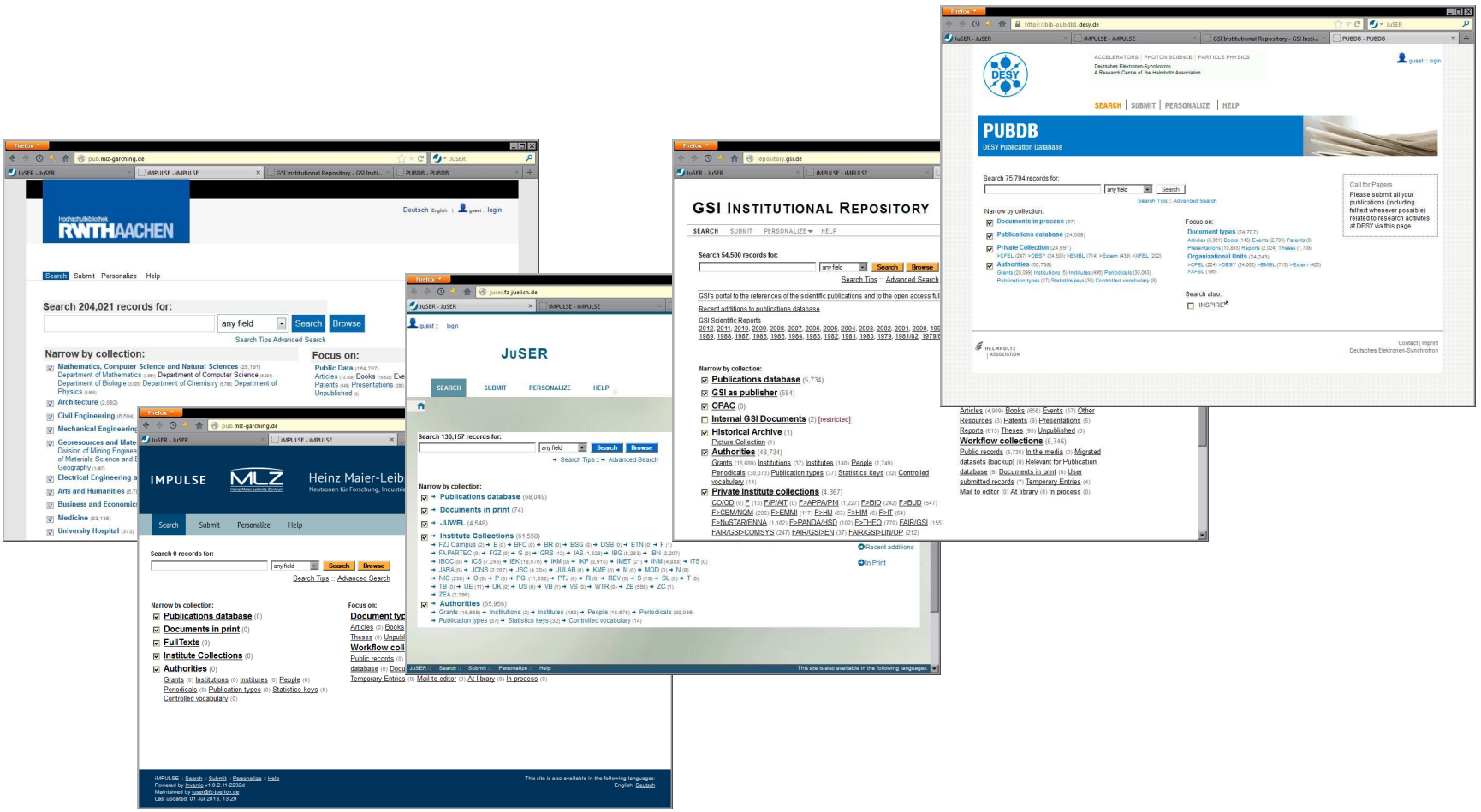
Accomplishments and status



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- All partners have running systems (roll out works)

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- Importer routines (doi, pmid, arXiv, inspire, ISBN, own recs,. . . in **websubmit**)

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  - Use (e. g. JSON returns, statistics. . .)
  - Share (MarcXML OAI-PMH)

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  - Author identification (ORCiD ready!)
  - Output formats (JSON, BibTEX, EndNote...)
  - Reporting (publication statistics)
  - Delivery to content management systems

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Tools used

- Workflow

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  - Webbaskets (e. g. revision lists)
  - Alerts (e. g. revision lists)
  - Collections (e. g. private for institutes)
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However. . .

In our use case switching of the base system is non-trivial

(Remember: 10+ instances. . .)

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- Open up for new partners
- Clean up our code and give it back

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Contributors

- *Martin Köhler*[a]
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- Bernhard Mittermaier[e]
- Anna Fründ[e]
- Heike Lexis[e]
- *Cornelia Plott*[e]
- Christoph Holzke[e]
- *Alexander Wagner*[e]
- Jürgen Neuhaus[f]
- Connie Hesse[f]
- *Björn Pedersen*[f]
- Ulrike Eich[g]
- *Louai Barake*[g]
- *Abdoulaye Diallo*[g]
- Roland Rappmann[g]
- Dominik Schmitz[g]
- Edmund Wollgarten[g]

[a] DESY Library and Documentation; [b] Project Inspire; [c] GSI Library; [d] GSI Core IT;

[e] Forschungszentrum Jülich, Zentralbibliothek; [f] MLZ, Garching; [g] RWTH Aachen, Hochschulbibliothek

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Further “reading”

- Invenio @ HGF - Technical background

  Talk at Invenio Developer Forum

- Collaborative tools for an institutional repository

  Talk at Helmholtz OA Workshop

- JuSER – Publications Database

  Introductory course at Jülich

- JuSER - Autorenhandling

  Talk at HGF-ORCiD Meeting, Berlin (in german)

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Thanks!

Alexander Wagner
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Scientific Publishing

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a.wagner@fz-juelich.de

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