



eSciDoc

Abstractions, Functionality and Services

Malte Dreyer



Repository Infrastructure

- Taking artifacts in the center of the design
- Dealing with Tradeoffs

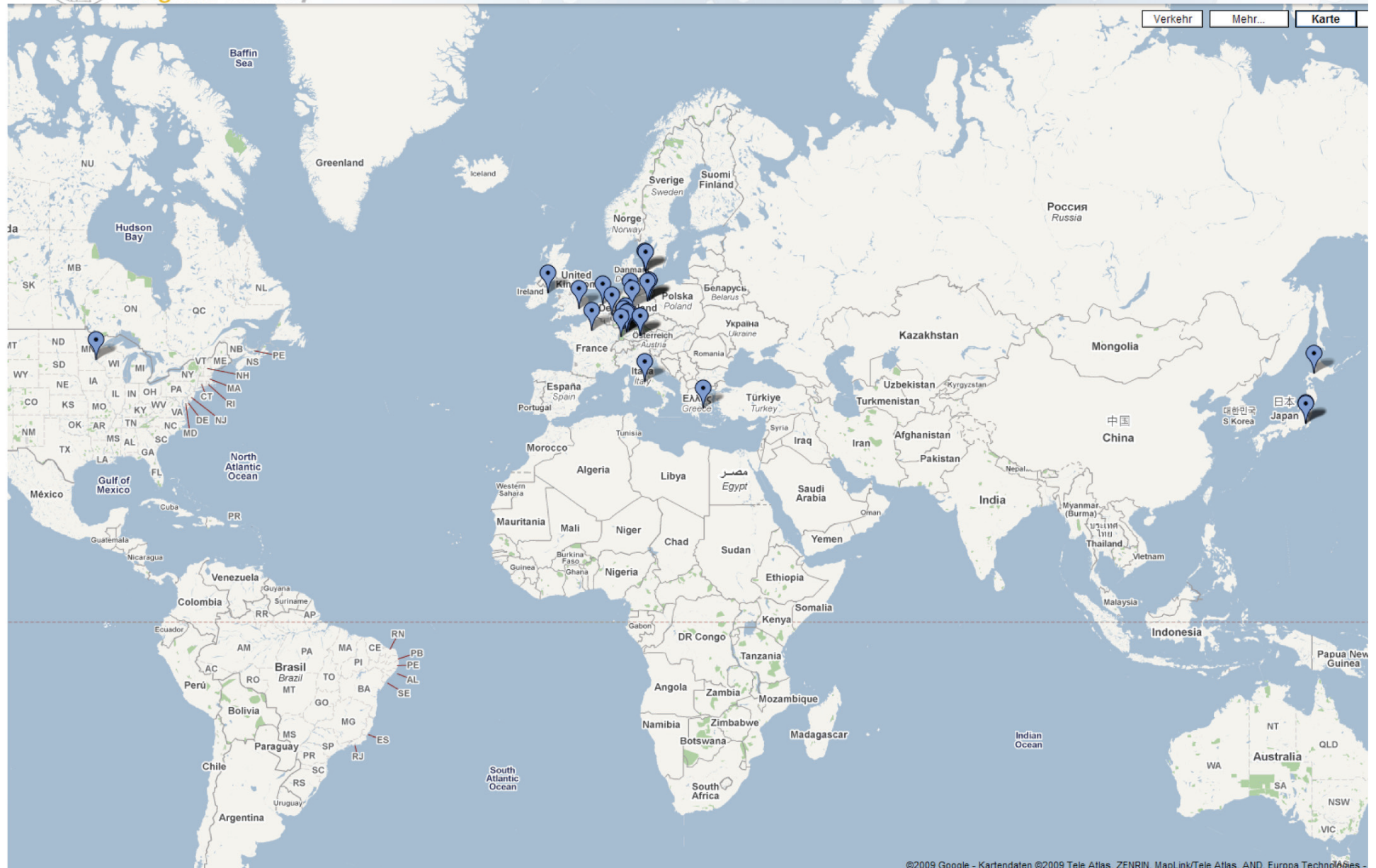
- A Continuum
 - Archive -> Stable and longliving
 - Artifact Handling -> Enrichment and Fidelity of data
 - Working Environment -> Speed and Flexibility

- Could be solved by many specialized systems



eSciDoc

- A Repository Infrastructure
- An Infrastructure for Virtual Research Environments
- A Publication Infrastructure
- A Set of Services, Tools and Content Models
- An Archive
- Some Solutions





Interested Parties, Prospects, and Partners

- Academy of Athens, Greece
- Bayerische Staatsbibliothek, Munich, Germany
- CNRS, France
- DANS, The Hague, Netherlands
- Deutsches Archäologisches Institut, Berlin, Germany
- DTU, Lyngby, Denmark
- FAO (Food and Agriculture Organization of the United Nations), Rome, Italy
- GBV, Göttingen, Germany
- GeoForschungsZentrum Potsdam, Germany
- German National Library of Science and Technology, Hannover, Germany
- Hokkaido University, Japan
- Humboldt University Berlin, Germany
- IRCHSS, Dublin, Ireland
- King's College, UK
- National Institute of Material Science, Japan
- Nihon University, Japan
- RWTH Aachen, Germany
- University of Copenhagen, Denmark
- University of Freiburg, Germany
- University of Heidelberg, Germany
- University of Minnesota, USA
- University of Stuttgart, Germany
- University of Tübingen, Germany

eSciDoc Infrastructure





Infrastructure

```
<escidocItem:item
  xmlns:relations="http://www.escidoc.de/schemas/relations/0.3"
  xmlns:escidocMetadataRecords="http://www.
    <escidocItem:properties xlink:type="simple" xlink:title="Properties" xlink:href="/ir/item/escidoc:67067/properties">
    <prop:creation-date>2009-06-08T08:27:49.975Z</prop:creation-date>
    <srel:created-by xlink:type="simple" xlink:title="Sweere, Annemieke" xlink:href="/aa/user-account/escidoc:53218" />
    <prop:public-status>released</prop:public-status> <prop:public-status-comment ></prop:public-status-comment> <srel:context xlink:ty
    <version:number >4</version:number> <version:date >2009-06-08T08:32:30.599Z</version:date> <version:status >released</ve
    <version:comment ></version:comment> <version:pid >hdl:someHandle/test/escidoc:67067:4</version:pid>
    <prop:latest-version xlink:type="simple" xlink:title="Latest Version" xlink:href="/ir/item/escidoc:67067:4">
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    <local-tag>staffmeeting-2009-sept</local-tag>
    </local-tags>
  </prop:content-model-specific>
</escidocItem:properties>
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  <escidocMetadataRecords:md-record name="escidoc"
    xlink:type="simple" xlink:title="escidoc" xlink:href="/ir/item/escidoc:67067/md-records/md-record/escidoc">

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    <escidoc:person xmlns:escidoc="http://escidoc.mpg.de/metadataprofile/schema/0.1/types">
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      <escidoc:family-name>Warner</escidoc:family-name>
      <escidoc:given-name>Natasha</escidoc:given-name>
      <escidoc:organization>
        <escidoc:organization-name>Department of Linguistics, University of Arizona, Tucson, Arizona </escidoc:organization-name>
        <escidoc:address>85721 USA </escidoc:address>
        <escidoc:identifier></escidoc:identifier>
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        <escidoc:organization-name>Language Comprehension Group, MPI for Psycholinguistics, Max Planck Society</escidoc:organization-name>
        <escidoc:address>Nijmegen, NL</escidoc:address>
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    </escidoc:person>
  </publication:creator>
```




Infrastructure /1: Fixed Purpose



http://commons.wikimedia.org/wiki/File:DA_ph_dreveny_most01.jpg (CC-BY-SA 3.0)



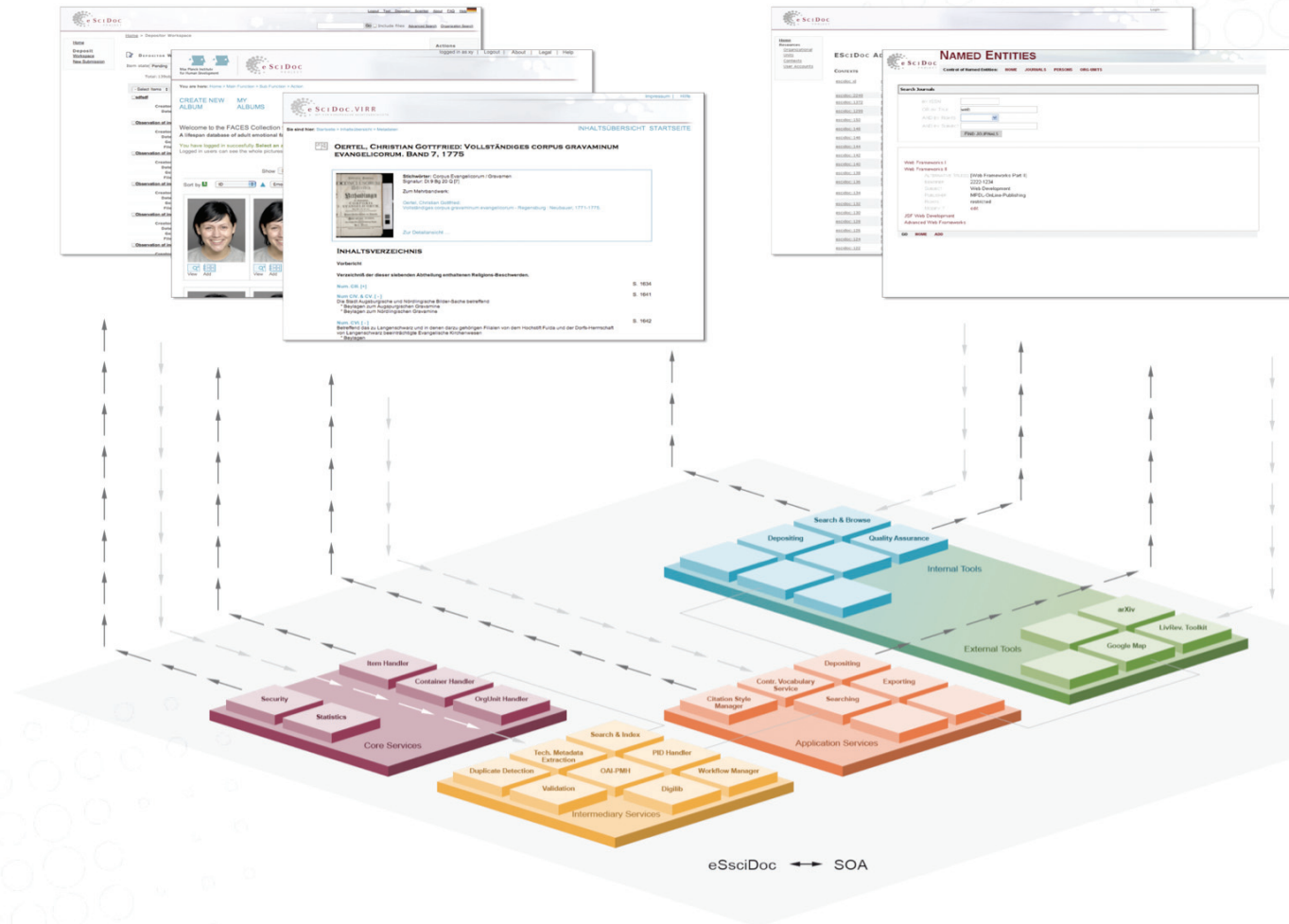
Infrastructure /2: More flexible



http://commons.wikimedia.org/wiki/File:Wellington_infrastructure.jpg (CC-BY 2.0)

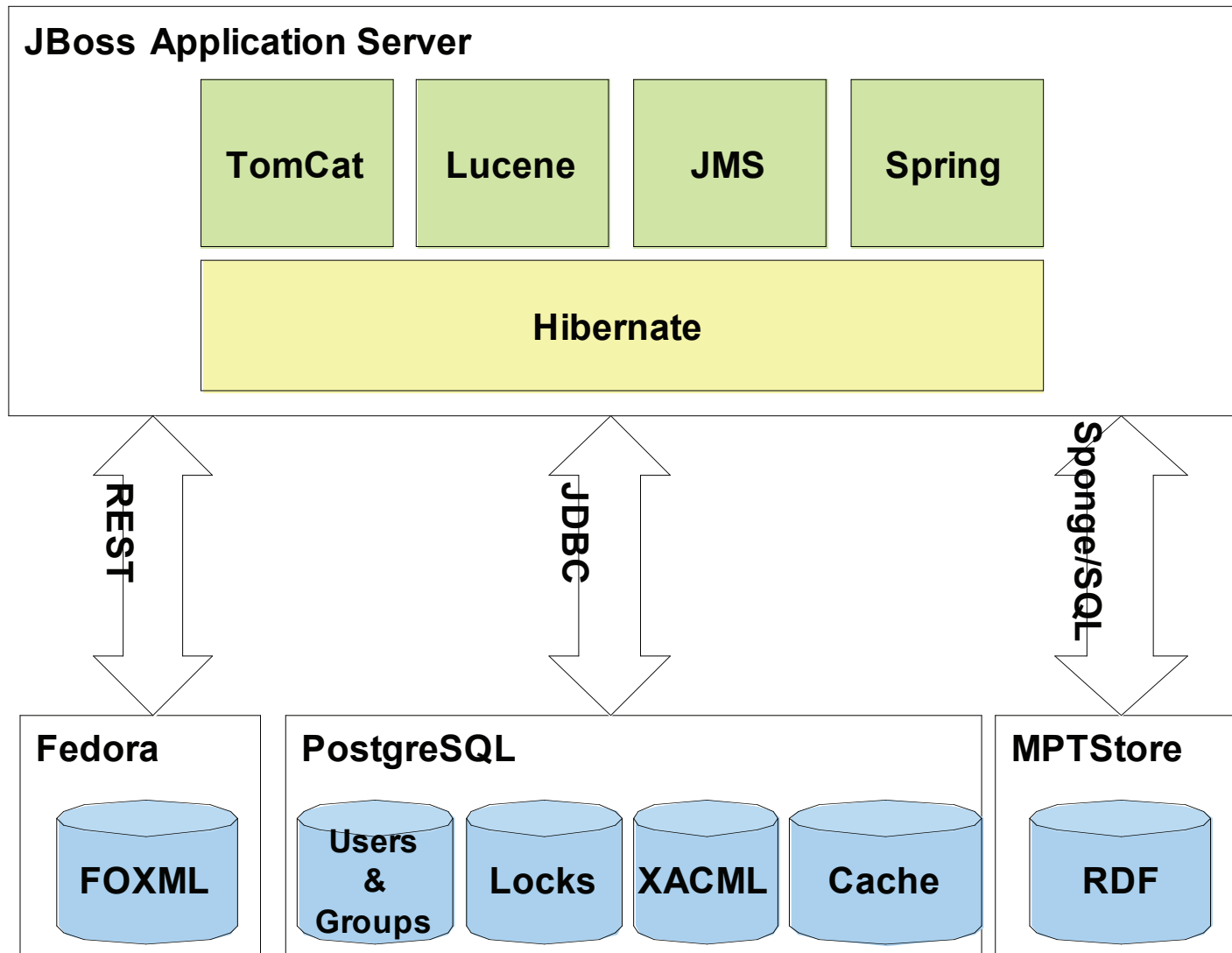


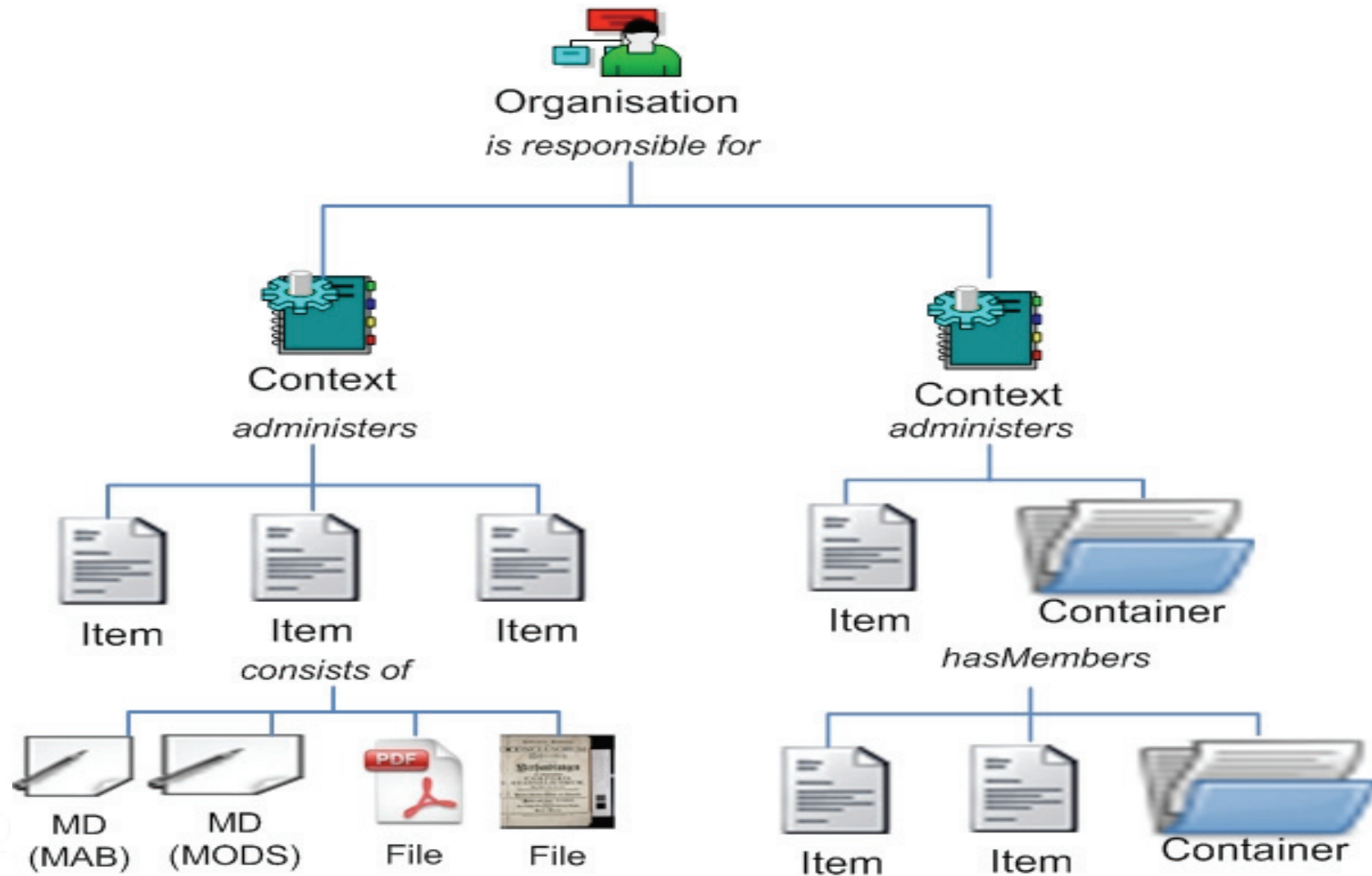
eSciDoc Architecture





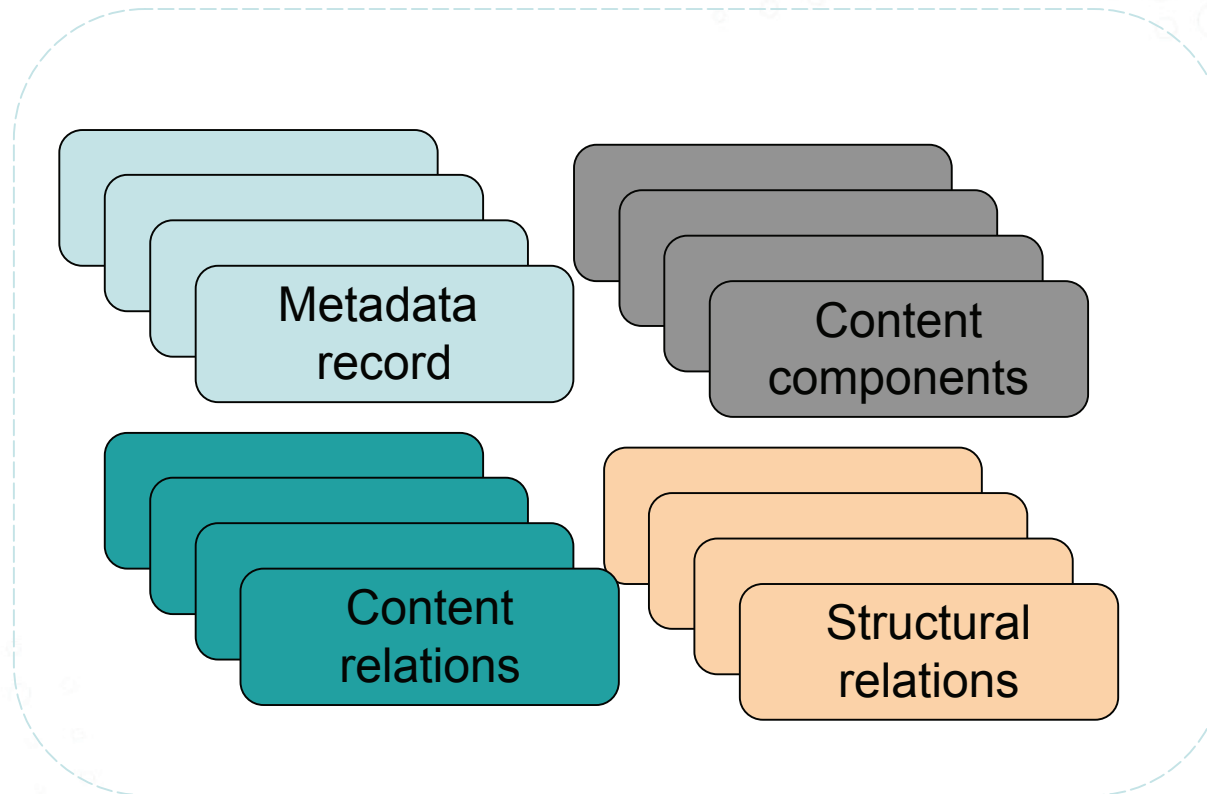
eSciDoc core infrastructure







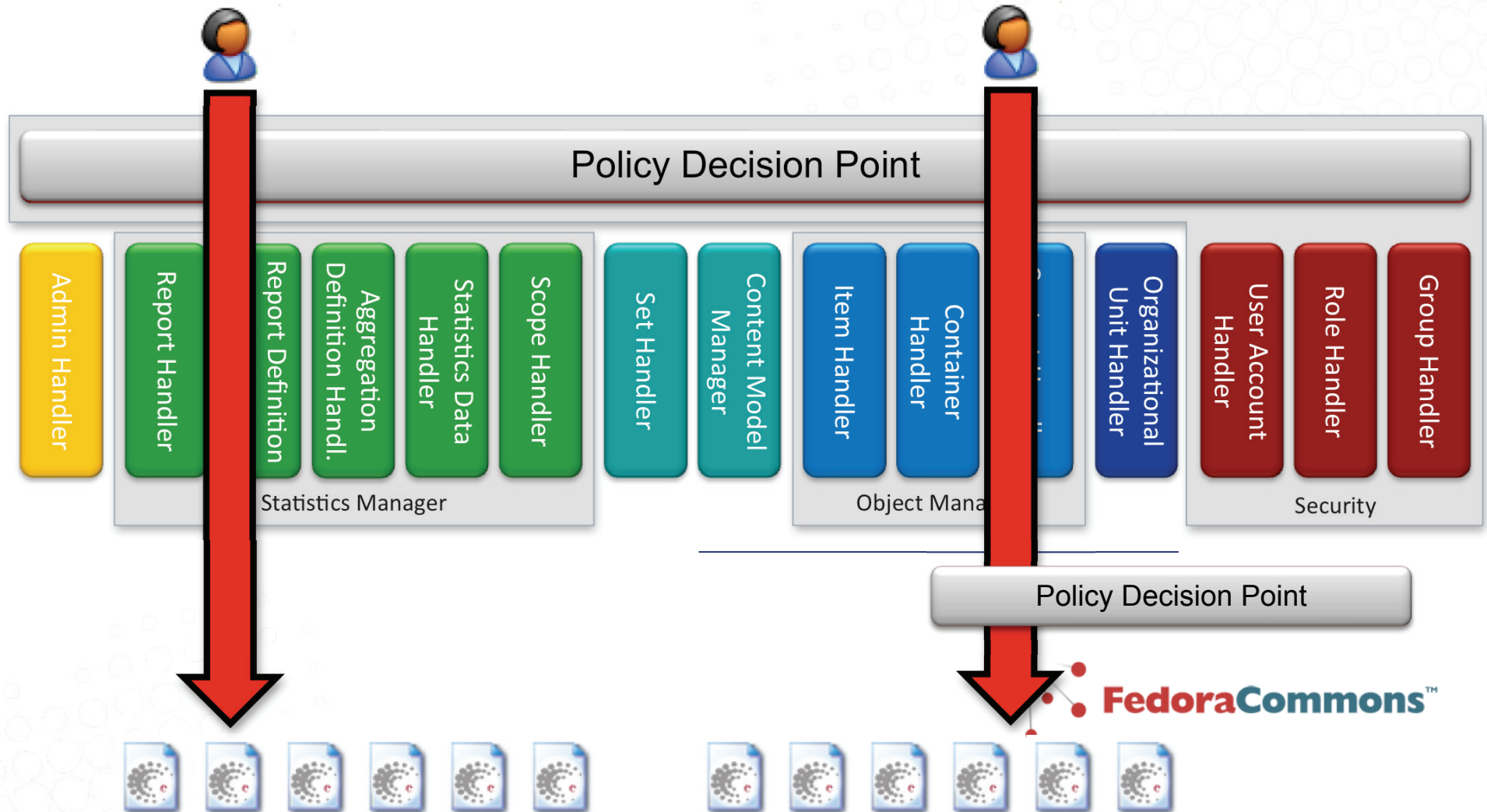
Items



- Plus: Audit Trail, Properties, Techn. MD, Context Information,.....



Core Services / Security



eSciDoc Scenarios Cloud





Solutions /1

Einloggen | Über PubMan | Blog | Hilfe | Deutsch ▼

e SciDoc.PubMan PROJECT

Suche: Los ☐ Volltexte einbinden

Erweiterte Suche | Organisationen

STARTSEITE | BASKET (0)

ANSICHT: SO ☐ Bibliographisch ☐ 203 Datensätze

25 ▼ Treffer

☐ Mittlere A ☐ Cues to per ☐ Clausal coo

☐ Mehr

Test Depositor Library | [ログアウト](#) | [ログアウト](#) | [ログアウト](#)

e SciDoc.PubMan PROJECT

[ホーム](#) | [登録一覧](#) | [管理画面](#) | [新規登録](#) | [一時保存 \(0\)](#)

[一覧表示](#) | [絞り込み](#) | [ソート順変更](#) | [ファイル形式で保存](#) | [選択したアイテムを一時保存へ追加](#)

登録状況: 147 件 (降)

25 ▼

[登録状況](#)

☐ 仮保存

e SciDoc.PubMan PROJECT

Test Depositor Library | [Logout](#)

HOME | MY ITEMS | QA WORKSPACE | SUBMISSION | BASKET

VIEW | FILTER | SORTING | EXPORT | ADD SELECTED TO BASKET

State: All (except withdrawn) ▼

Import: - ▼

147 Items (descending sorted by Modification Date)

25 ▼ items per page

Previous | 1 | 2 | 3 | 4 | 5



Solutions /2

Show 12 of 14 hits

Sorted by **identifier** organization-name shape Sort

Revise Search Show 12 of 12 hits

Sorted by **Emotion** Person-ID Picture Set Sort

Revise Search Show 12 of 12

Project Home
Subprojects
People
Publications
Tools
News
Events

You are here: Home → Research → Research projects → Information structure in language acquisition → Publications

Information structure in language acquisition - Publications

Journal article

- Pyykkönen, P., & Jänviki, J. (in press). Activator causality information in spoken language comprehension. [Psychology](#). [more >](#)
- Pyykkönen, P., Matthews, D., & Jänviki, J. (in press). Sensitivity to semantic prominence during online comprehension: A visual world study of pronoun resolution. [Cognitive Processes](#). [more >](#)
- Dimroth, C. (2008). Age effects on the process of the acquisition of negation and finiteness in L2 German. [L2: Journal of Foreign Language Research](#). [more >](#)
- Narasimhan, B., & Dimroth, C. (2008). Word order

Max Planck Institute for Psycholinguistics

Street address
Wundtlaan 1
6525 XD Nijmegen
The Netherlands

Reinhold von Sengbusch



About



On this website you find the publications of Reinhold von Sengbusch. Reinhold Oskar Kur February 1898 in Riga; † 13 June 1982. Director at the Max Planck Institut für Hamburg-Volksdorf and one of the researchers of the last century. In publications you can find out more about [breeding achievements](#) and the [scientific](#)

Reinhold von Sengbusch began to continue until the nineteen-eighties together with his colleagues publish articles. His institute produced about 6 the fulltext availability on this site will increase

This collection is presented by the Max Planck Society

Hide scan | Hide pagination | Hide structure

Format: Arabic | Start: 1 | Filter: 1-50 | Page: 1 of 41

Structure type: Chapter | Add | Remove | Level 1-1

Show: ☒ Pages ☒ Titles

Band 1

- Index (Register) : noindex
- Chapter: noc (IV)
 - 4: v0002 (IV)
 - 5: v0003 (V)
 - 8: d0002 (VIII)
 - 9: d0003 (IX)
- Chapter (2): Test Kapitel 2 (XV)
 - 15: d0009 (XV)
 - 16: d0010 (XVI)
 - 17: d0011 (XVII)
 - 18: d0012 (XVIII)
 - 19: d0013 (XIX)
 - 20: d0014 (XX)
 - 21: d0015 (XXI)
- Chapter (3): Test Kapitel 3 (XI)
 - 11: d0005 (XI)

Hide Metadata | Remove Assigned Pages

Signature: Dt 9 Bg 18 Q [1]

Edt./Asc.: Schaubrosch, Eberhard Christian Wilhelm von



Solutions and buildings blocks for ...

- Publications
 - Repository Matrix
- Images
- Digitized Textual Resources

	A	B	C	D	E	G
1	Feature	PubMan	eDoc	DSpace	EPrints	OPUS
30	Volume Import for Metadata ⁽⁹⁾	+	+	+	+	+
31	Upload from existing URL	+	-	-	+	-
32	Import Formats	EndNote; Web of Science; BibTeX; RIS; XML	Web of Science; EndNote; RIS; eDoc XML	BibTeX; XML; EndNote; RIS	BibTeX; XML; EndNote; OAI-ORE; METS; MODS; MARC	BibTeX
33	Fetch Metadata & Fulltext from	eSciDoc; arXiv; PubMed Central; BioMed Central; Spires	-	PsycInfo; ERIC; Agricola; Encyclopedia Britannica	arXiv; PubMed; ISI; CrossRef	-
34	3. MANAGEMENT					
35	SYSTEM MANAGEMENT					
36	3.1 Password Administration					
37	Lightweight Directory Access Protocol (LDAP) ⁽¹⁰⁾	+	-	+	+	-
38	System-assigned Passwords	-	-	+	+	+
39	User-selected Passwords	+	+	+	+	-
40	Forgotten Password Function ⁽¹¹⁾	-	-	+	+	-
41	3.2 Content Submission Administration					
42	Define multiple Collections within same Instance of System ⁽¹²⁾	+	+	+	+	+
43	Set different Submission Parameters for each Collection ⁽¹³⁾	+	-	+	+	-
44	3.3 Submission Support					
45	Email Notification for ^{(14), (15)}	-	-	Submitters; Content Administrators	Submitters; Content Administrators	Submitters; Content Administrators



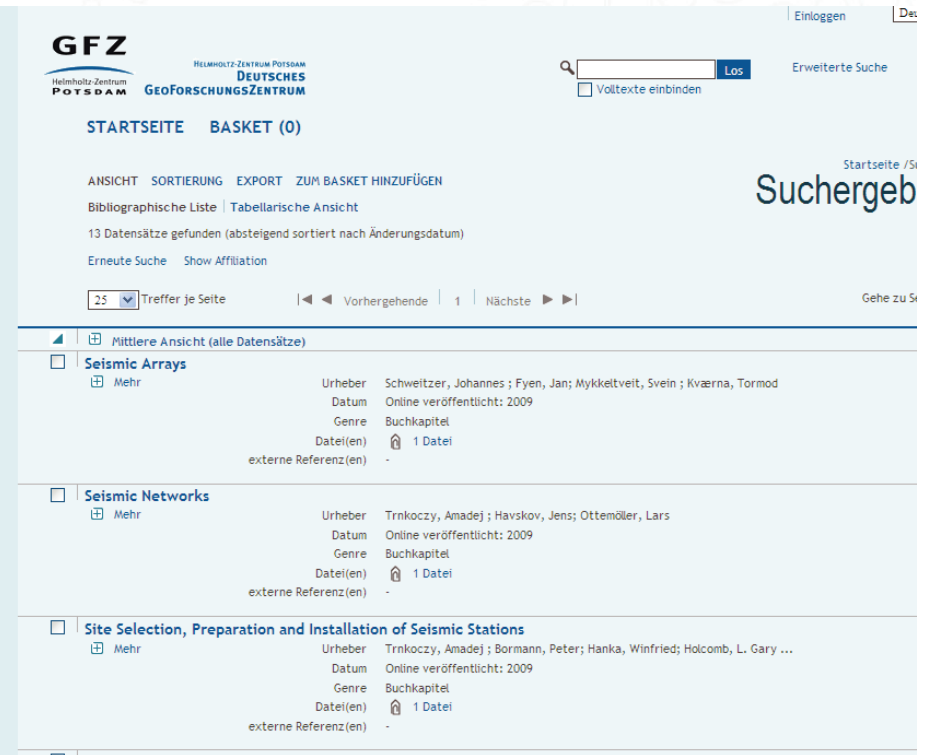
External Use (Examples)



NIMS Digital Library
eSciDoc

デジタルライブラリー、その先に見えるもの

National Institute for Materials Science



GFZ
HELMHOLTZ-ZENTRUM POTSDAM
DEUTSCHES GEOFORSCHUNGSZENTRUM

Einloggen | Des

Suche Los ☐ Volltexte einbinden Erweiterte Suche

Startseite / Suchergeb

ANSICHT SORTIERUNG EXPORT ZUM BASKET HINZUFÜGEN

Bibliographische Liste | Tabellarische Ansicht

13 Datensätze gefunden (absteigend sortiert nach Änderungsdatum)

Erneute Suche Show Affiliation

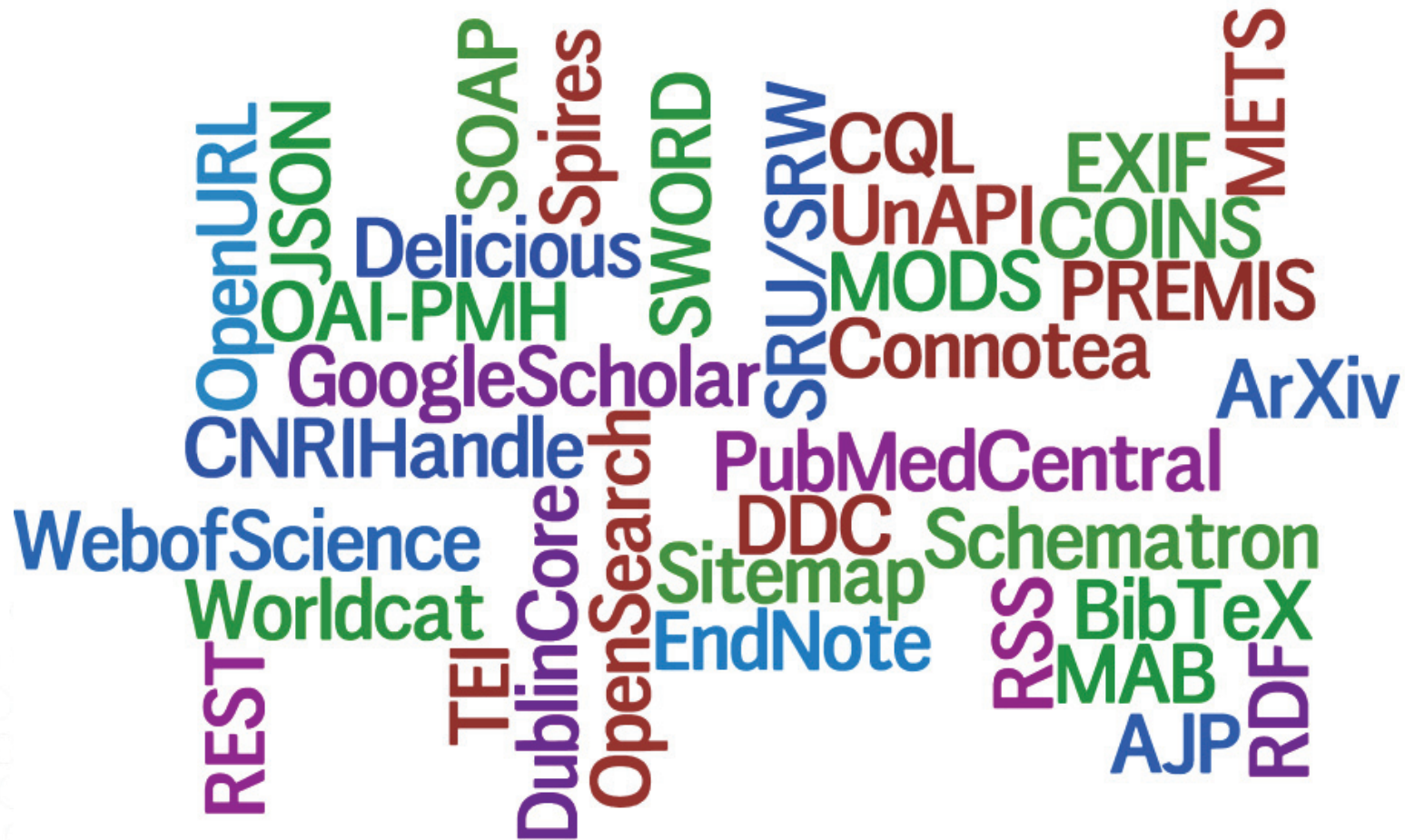
25 Treffer je Seite | Vorhergehende | 1 | Nächste | Gehe zu Seite

Mittlere Ansicht (alle Datensätze)

☐ Seismic Arrays	Urheber	Schweitzer, Johannes ; Fyen, Jan; Mykkeltveit, Svein ; Kværna, Tormod
☐ Mehr	Datum	Online veröffentlicht: 2009
	Genre	Buchkapitel
	Datei(en)	1 Datei
	externe Referenz(en)	-
☐ Seismic Networks	Urheber	Trnkoczy, Amadej ; Havskov, Jens; Ottemöller, Lars
☐ Mehr	Datum	Online veröffentlicht: 2009
	Genre	Buchkapitel
	Datei(en)	1 Datei
	externe Referenz(en)	-
☐ Site Selection, Preparation and Installation of Seismic Stations	Urheber	Trnkoczy, Amadej ; Bormann, Peter; Hanka, Winfried; Holcomb, L. Gary ...
☐ Mehr	Datum	Online veröffentlicht: 2009
	Genre	Buchkapitel
	Datei(en)	1 Datei
	externe Referenz(en)	-



Selected Supported Protocols/Standards/Specifications



Search Result

You searched in the the whole Faces Collection for (happiness)

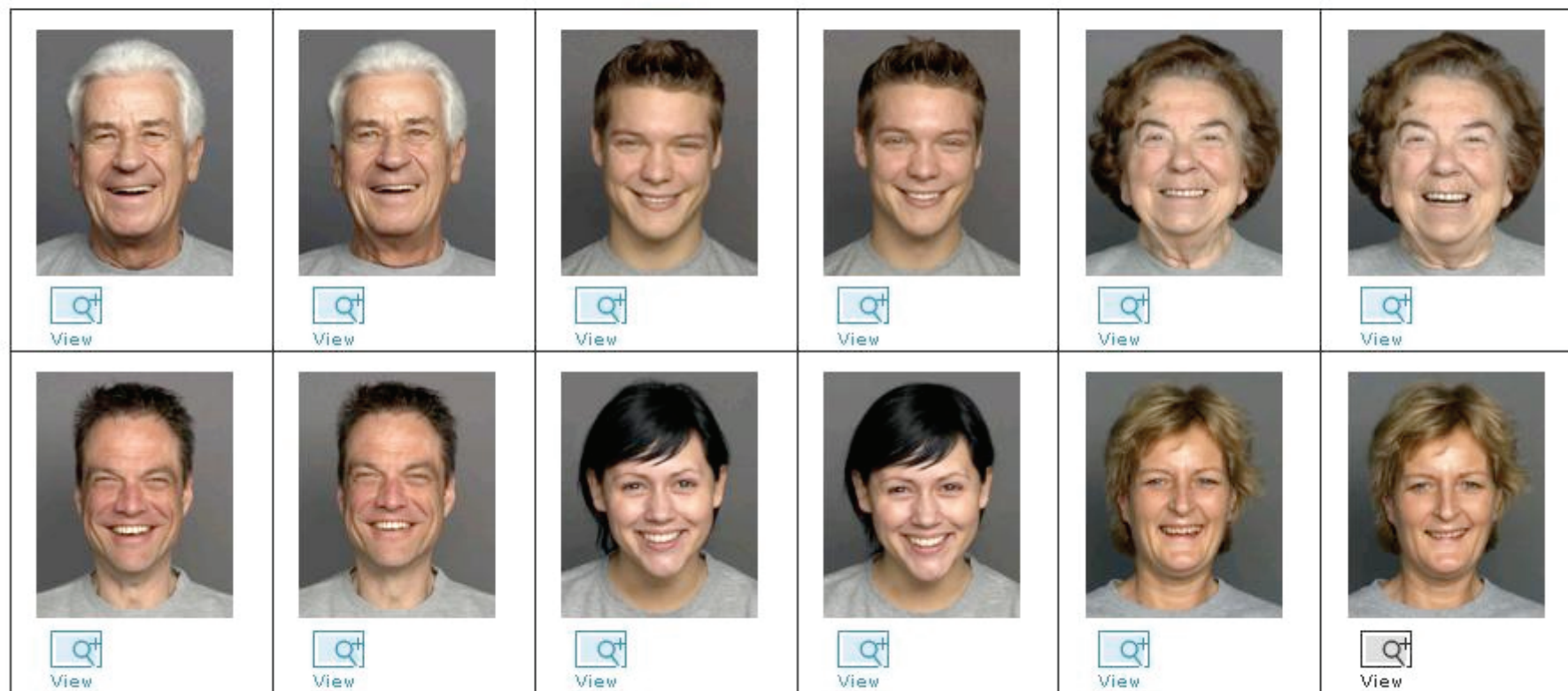
[Revise Search](#)

Show of 12 hits

◀◀ Previous Next ▶▶

Go to page of 1

Sorted by 



[Revise Search](#)

Show of 12 hits

◀◀ Previous Next ▶▶

Go to page of 1



[Home](#)

[Create
Album](#)

[My
Albums](#)

[Published
Albums](#)

[Statistics](#)

[Browse](#)

Published Albums

Search in album list [Search](#)

Show of 2 hits

◀◀ Previous Next ▶▶

Go to page of 1

Sorted by [Date published](#) ▼

Name	Number of pictures	Description	Owner	Affiliation	Date published ▼
Expression Research on Middle Aged Men	8	This album contains a selection of middle aged men with different facial expressions.	Kleinfurher, Friederike	Max Planck Digital Library	2009-03-27 at 13:49:12 CET
DEMO FACES Collection	72	This is the FACES Collection of test-faces.mpgdl.mpg.de	Saquet, Bastien	MPDL	2009-03-27 at 13:14:17 CET

Show of 2 hits

◀◀ Previous Next ▶▶

Go to page of 1



Browse

14 images to browse

Show 12 of 14 hits

Previous 1 2 Next

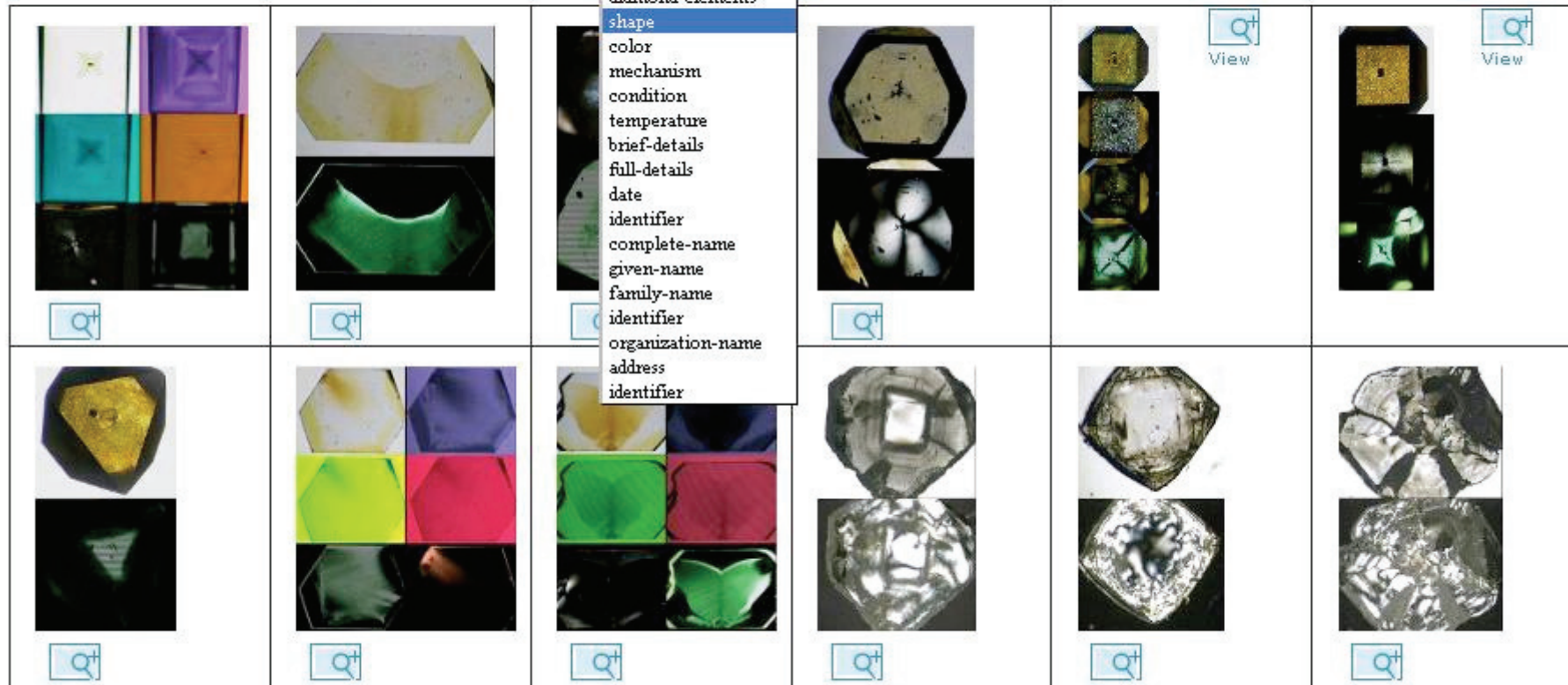
Go to page of 2

Sorted by identifier

organization-name

shape

Sort



Show 12 of 14 hits

Previous 1 2 Next

Go to page of 2

Vollständige Sammlung Aller Concluseum, Schreiben Und anderer übrigen Verhandlungen Des Hochpreißlichen Corporis Evangelicorum nnnnnn. Vol. 1, 1751

Hide scan

Go to Scan 1 / I of 41

Format Arabic

Start 1

Filter 1-50

Paginate

Show

Hide pagination

Structure by Chapter

markiertes Element/Seite

Level 1-1

Show: ☒ Pages ☒ Titles

Band 1

Index (Register) : noindex

Chapter: noc (IV)

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- 11: d0005 (XI)

Hide Metadata

Remove Assigned Pages

Signature Dt 9 Bg 18 Q [1]

Edt./Asc. Schaurosaroth, Eberhard
Christian Wilhelm von

Title Vollständige Sammlung
Aller Concluseum,
Schreiben Und anderer
übrigen Verhandlungen

Save & Release

Save

☐	1:e0001	I	☒
☐	2:e0002	II	☒
☐	3:v0001	III	☒
☐	4:v0002	IV	☒
☐	5:v0003	V	☒
☐	6:v0004	VI	☒
☐	7:d0001	VII	☒
☐	8:d0002	VIII	☒
☐	9:d0003	IX	☒
☐	10:d0004	X	☒
☐	11:d0005	XI	☒
☐	12:d0006	XII	☒
☐	13:d0007	XIII	☒
☐	14:d0008	XIV	☒
☐	15:d0009	XV	☒
☐	16:d0010	XVI	☒
☐	17:d0011	XVII	☒
☐	18:d0012	XVIII	☒
☐	19:d0013	XIX	☒
☐	20:d0014	XX	☒
☐	21:d0015	XXI	☒
☐	22:d0016	XXII	☒
☐	23:d0017	XXIII	☒
☐	24:d0018	XXIV	☒
☐	25:d0019	XXV	☒
☐	26:d0020	XXVI	☒
☐	27:d0021	XXVII	☒



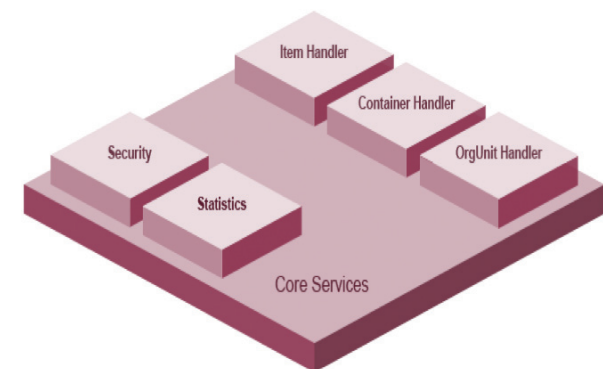
Services

OAI-PMH
Contexts
UserAccounts
SemanticStore
Duplicating
Duplicates
PID-Manager
ObjectManager
Validation
SWORD
OrganizationalUnits
Transformation
Digilib
TechnicalMetadata
Containers
ContentModels
Authentication
Security
SRU/SRW
NamedEntities
ItemHandler
Citationstyles
Statistics
Dataacquisition
Searcher



Service development: core services

- Context handler
- Item handler
- Container handler
- Organizational units handler
- Role handler
- User account handler
- Content model handler
- Authorization (Policy Decision Point)

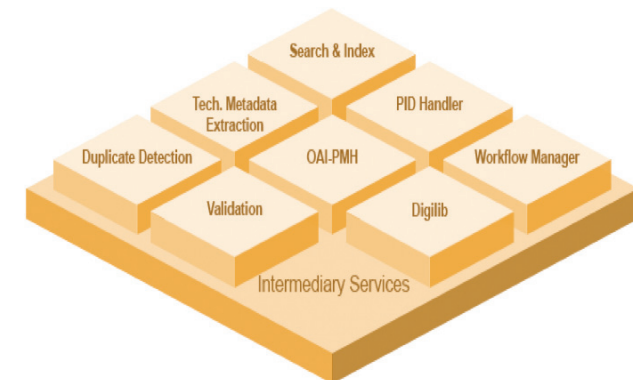


Data-centric (CRUD), logic-centric (versioning, release, withdraw, etc.), secured.



Service development: intermediate services

- Image Handler (Digilib)
- Validation service
- Statistics handler
- Technical metadata extractor(JHove)
- PID Manager
- Duplication detection

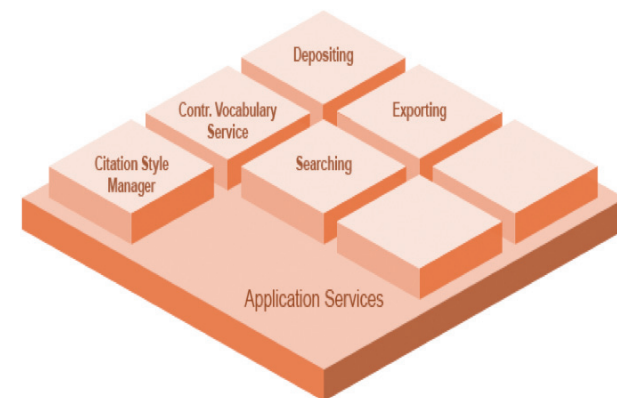


Functionality adding services, Technology gateways, adapters, façades



Service development: application services

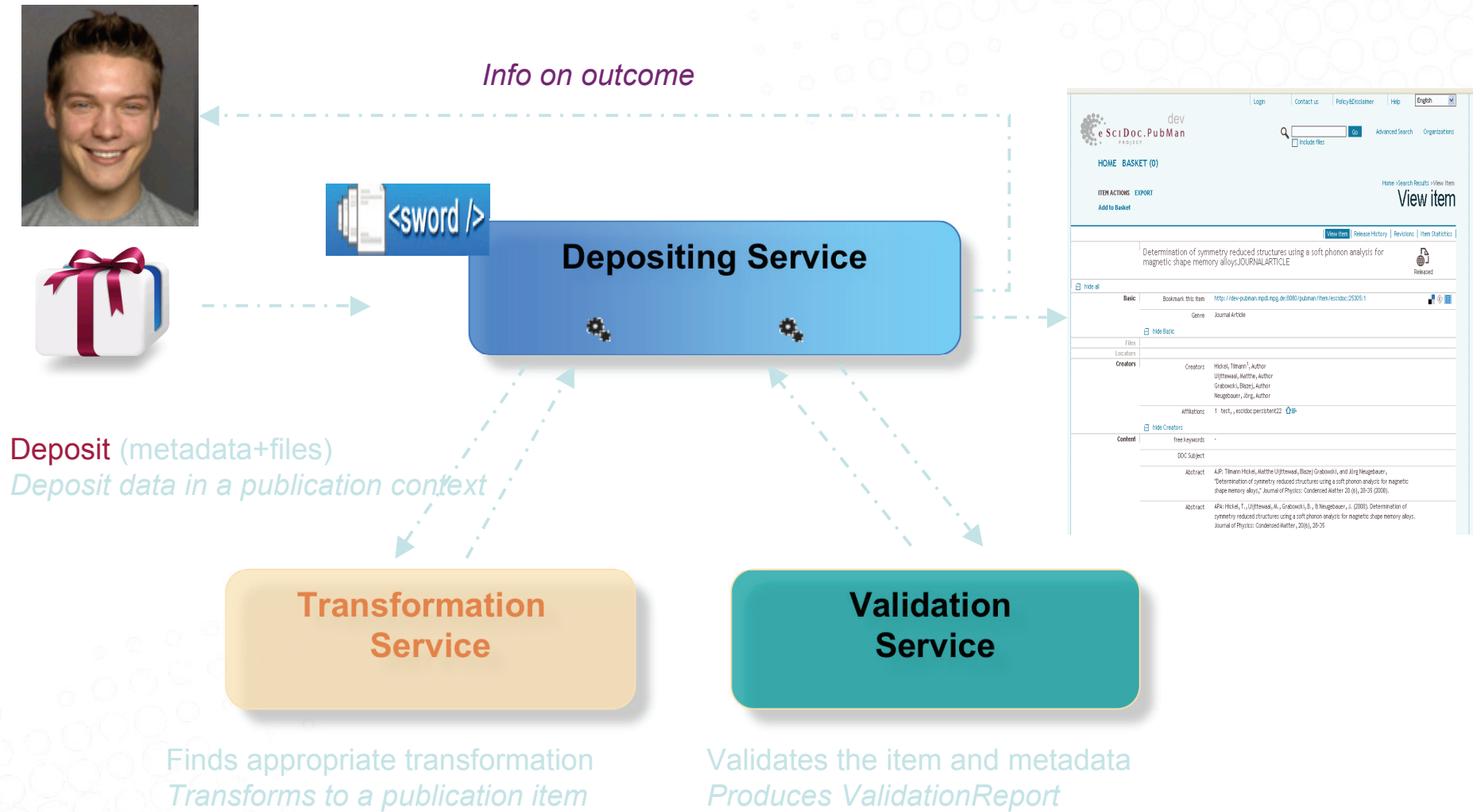
- Depositing (SWORD)
- Searching
- Publishing service
- Citation style manager (CitMan)
- Structured Export
- SearchAndExport service
- Control of Named Entities (Cone)
- Data Acquisition service (DaaS)
- Transformation service
- OAI-PMH



Process-centric or simply public services shared with partner institutions

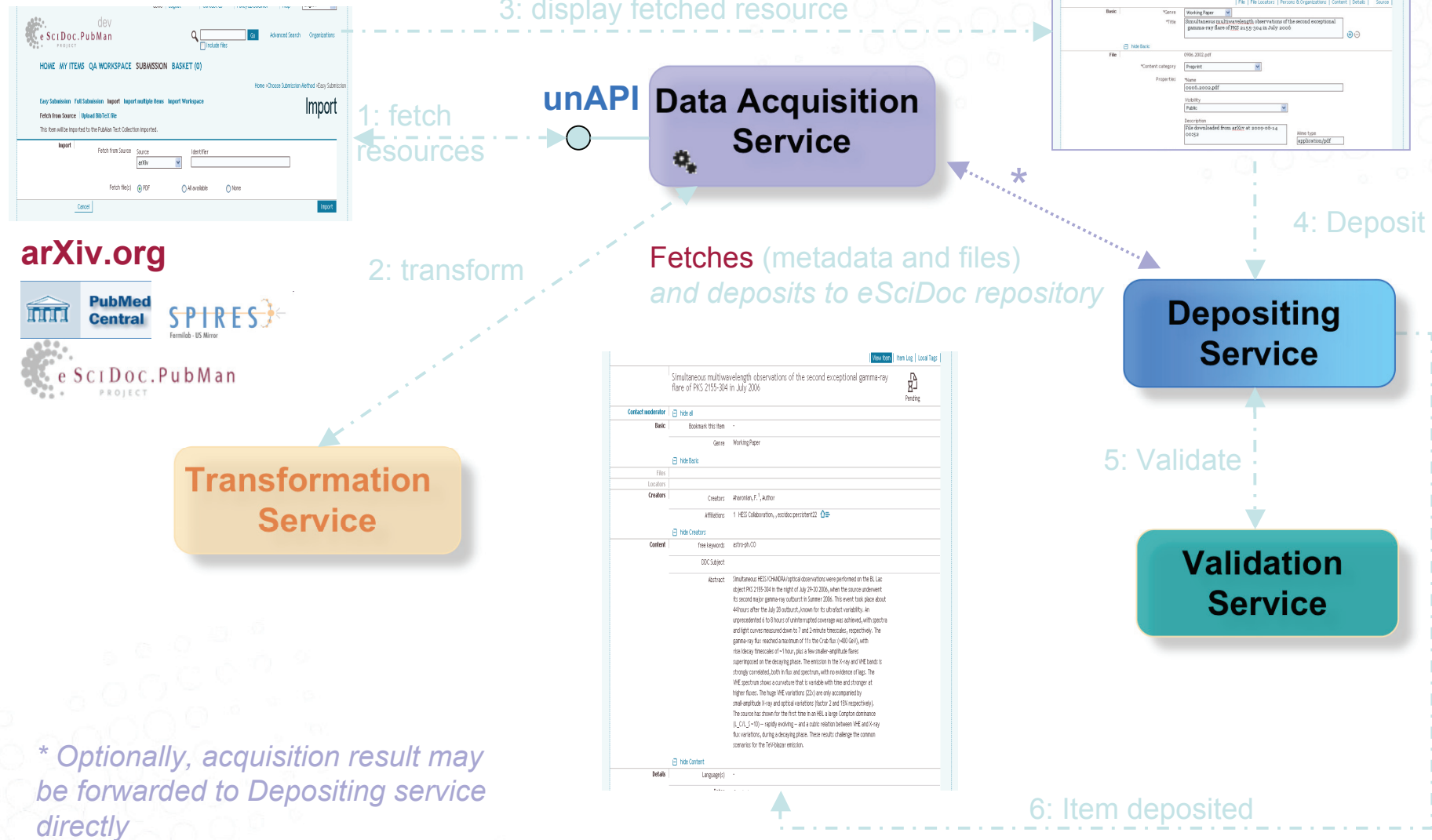


Services in action - 1



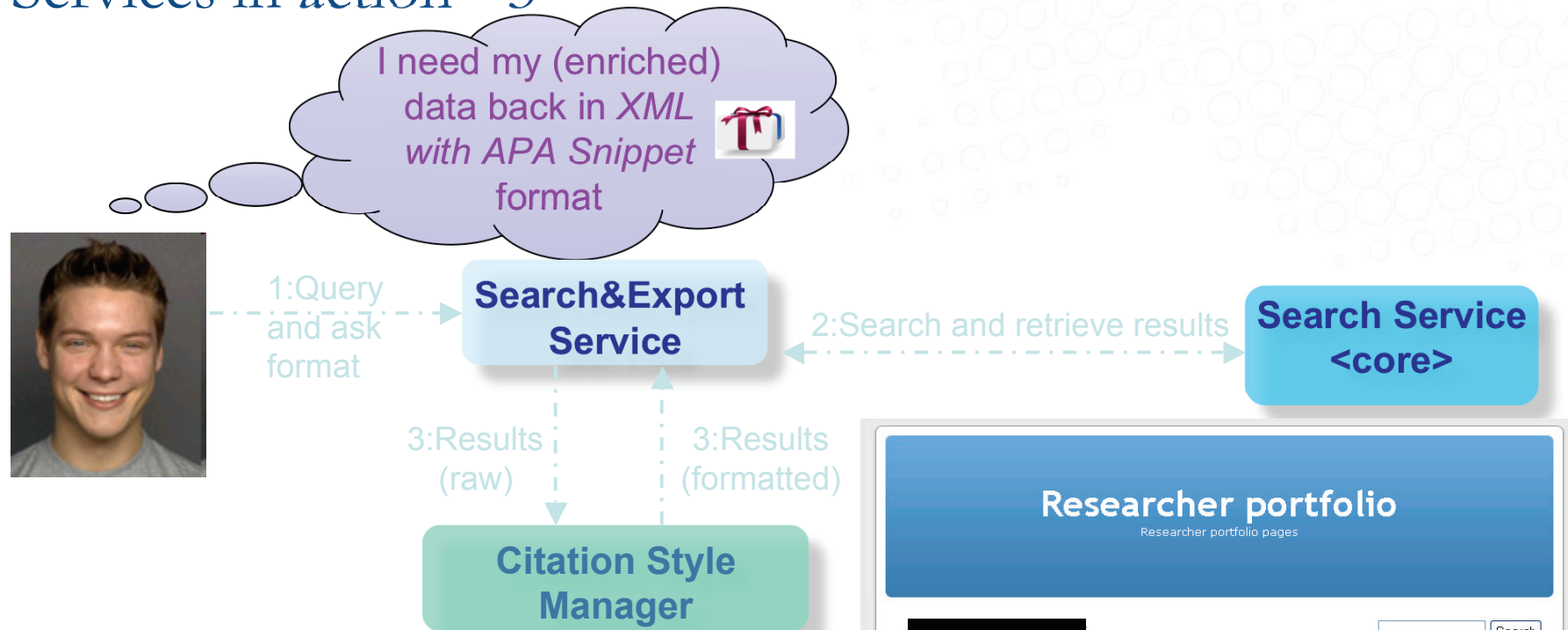


Services in action - 2





Services in action - 3



Search&Export: Process a (CQL) search query and delivers results in desired format

Citation style Manager: delivers bibliographic metadata formatted in a citation style (e.g. APA, AJP)

Results can be further reused in external applications, e.g. Researcher portfolio Wordpress Blog

Researcher portfolio

Researcher portfolio pages

Senior Researcher
Optronic Materials Center
National Institute for Materials Science

About
Working on optical fibers being exposed to high power laser beam.
Interested in digital publishing using free software, including writing light essays.
Completed my PhD in engineering at Kyoto University in 1993.
See also
» My homepage @ geocities.jp
» My essays @ scribd.com
» My video works @ youtube.com

Pages
» Todoroki, Shin-ichi

Archives
» February 2009
» November 2008
» August 2008
» August 2006
» June 2006
» January 2006
» October 2005
» April 2005
» January 2005
» September 2004
» May 2004
» February 2004
» January 2004
» October 2003
» March 2003
» May 2002
» April 2002
» January 2002

Categories
» Blog (1)
» ... (2)



Example: Control of Named Entities

- <http://qa-pubman.mpd.l.mpg.de:8080/cone/>



What about Long-term Preservation?

- Provenance Data
- Audit Trail and Versioning
- Multiple Metadata Records
- PREMIS Event History
- Standardized XML Object Containers
- Simple Backup/Rebuild Capabilities





Thanks!

Questions ?

malte.dreyer@mpdl.mpg.de