

EVENTOS

VII WORKSHOP REBIUN PROYECTOS
DIGITALES. LA ESTRATEGIA DIGITAL

2007



NETWORKING EUROPEAN DIGITAL REPOSITORIES. WHAT TO
NETWORK?



crue

Universidades
Españolas

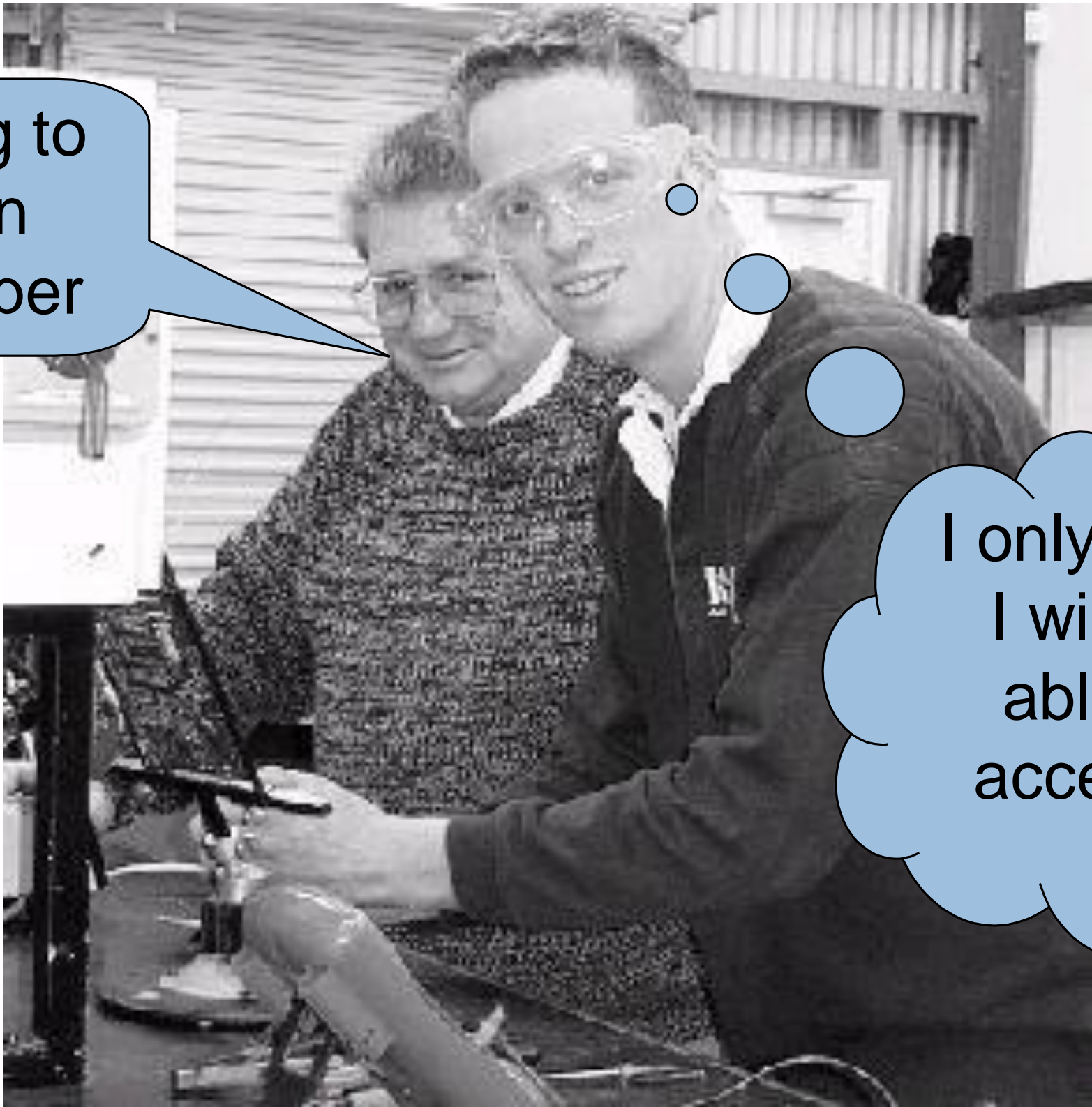
Red de Bibliotecas
REBIUN

Networking European Digital Repositories *What to Network?*



*Researchers generate
knowledge*



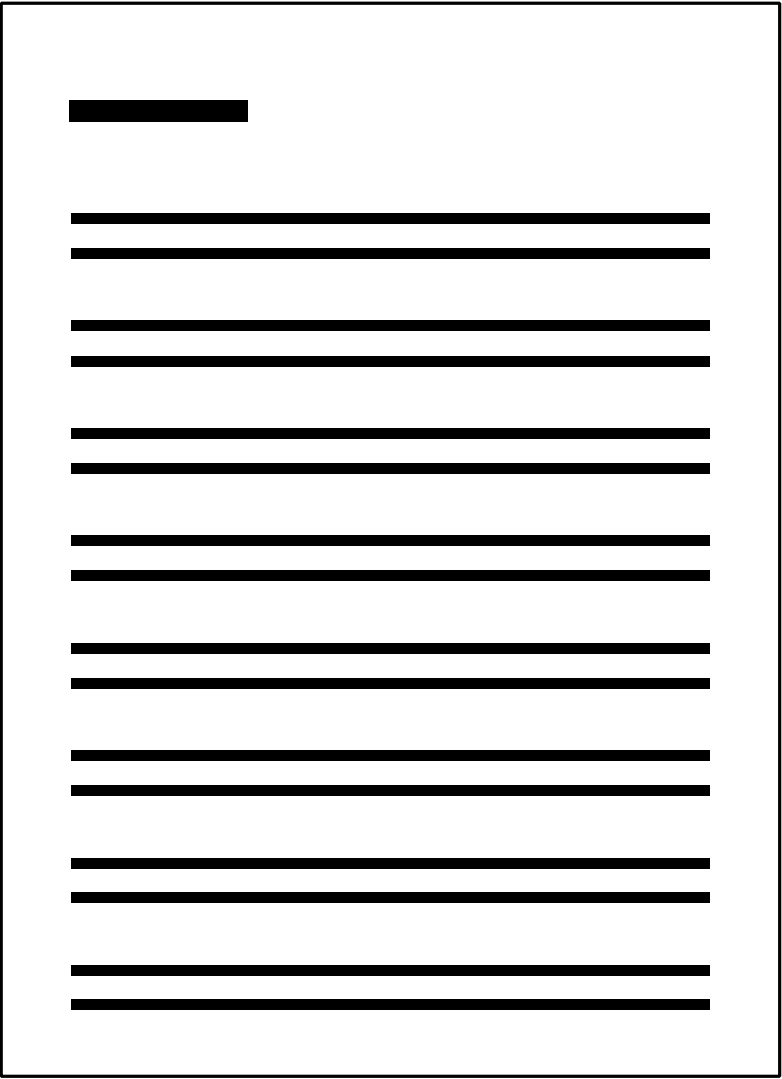
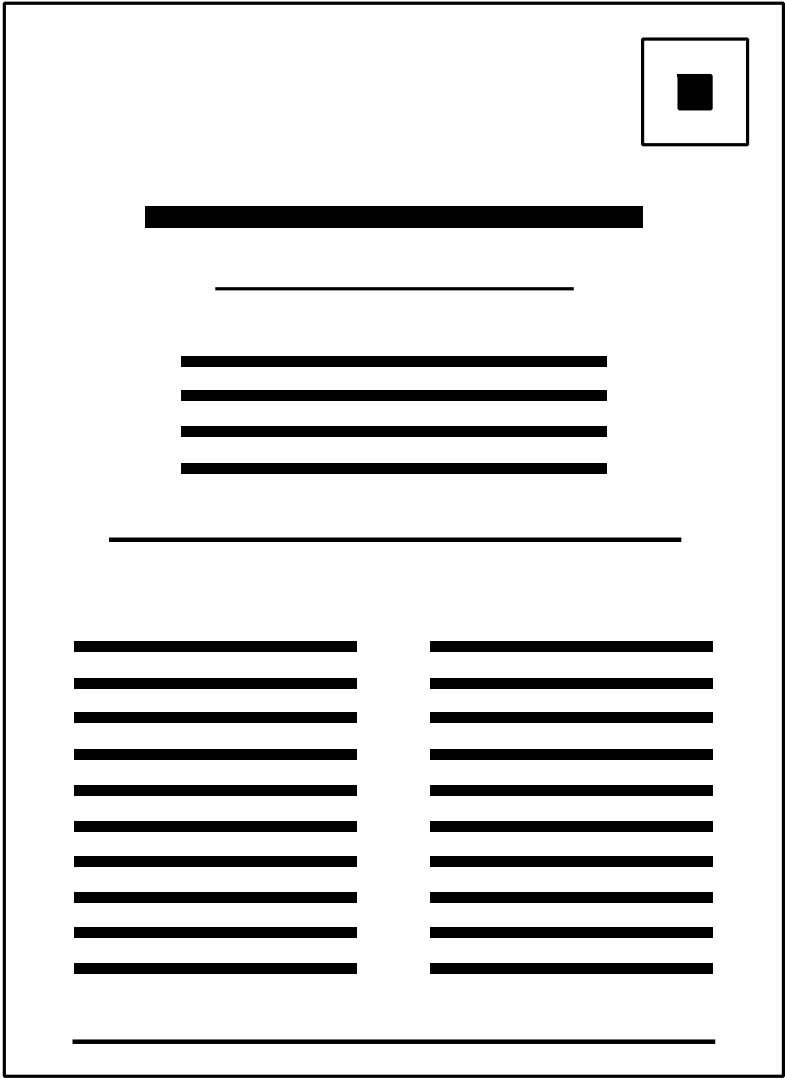


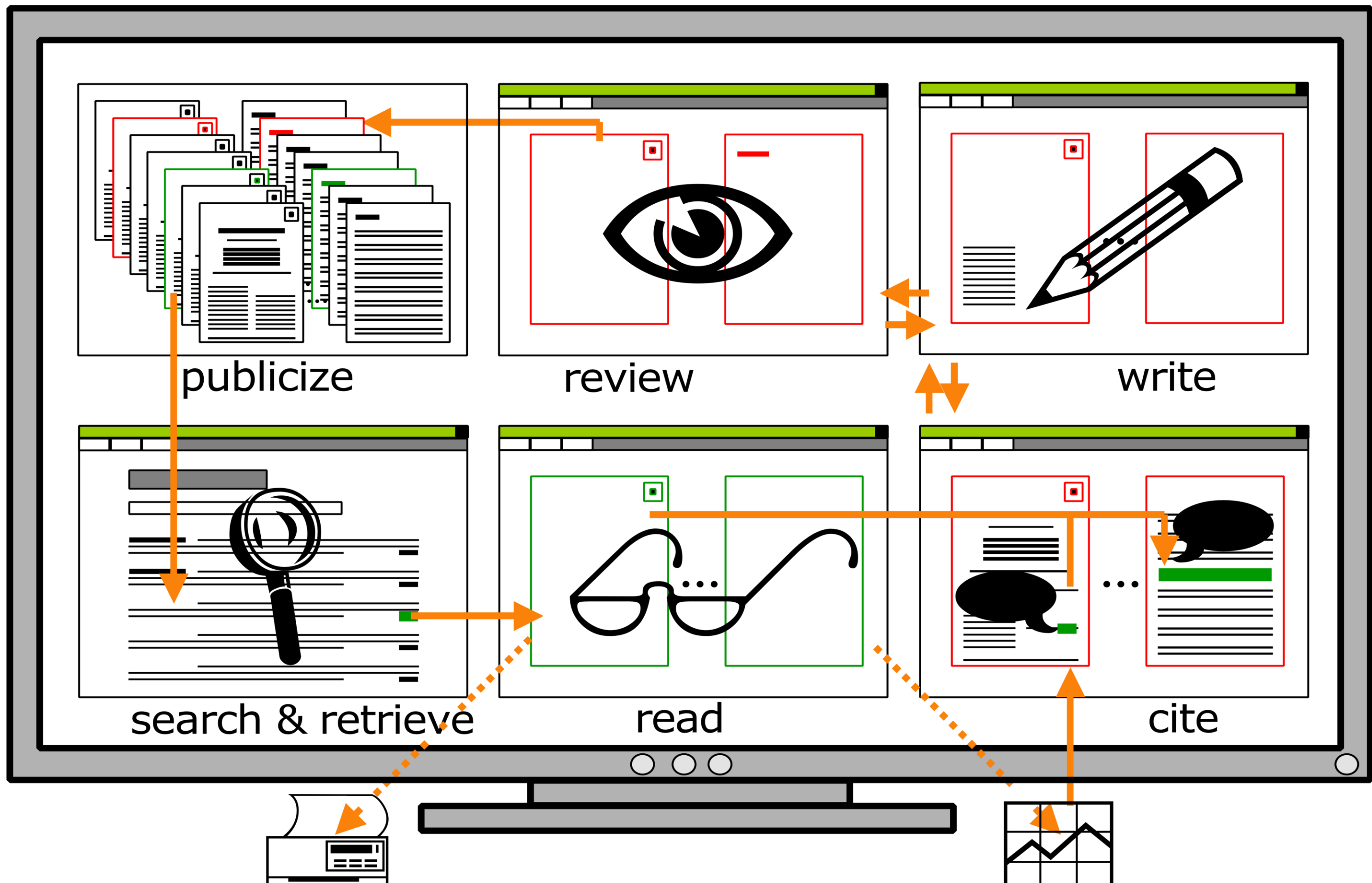
This is going to
become an
amazing paper

I only hope
I will be
able to
access it

*Knowledge is wrapped in
publications*







Publications in research



But we have a „full-text-problem“

- Most research institutions cannot afford
 - 25.000 peer-reviewed journals and conference proceedings
 - 2.500.000 publications annually
- Researchers have an access problem
 - Efficiency of work is affected
 - Use and Impact is suboptimal



2 (or 3) solutions proposed


- Publish in open eJournals
 - “golden road”
- Archive in Repositories
 - “green road”
- Long-term vision
 - open system for research output



2 (or 3) solutions proposed

- Publish in open eJournals
 - “golden road”

- Archive in Repositories
 - “green road”



You are here!

- Long-term

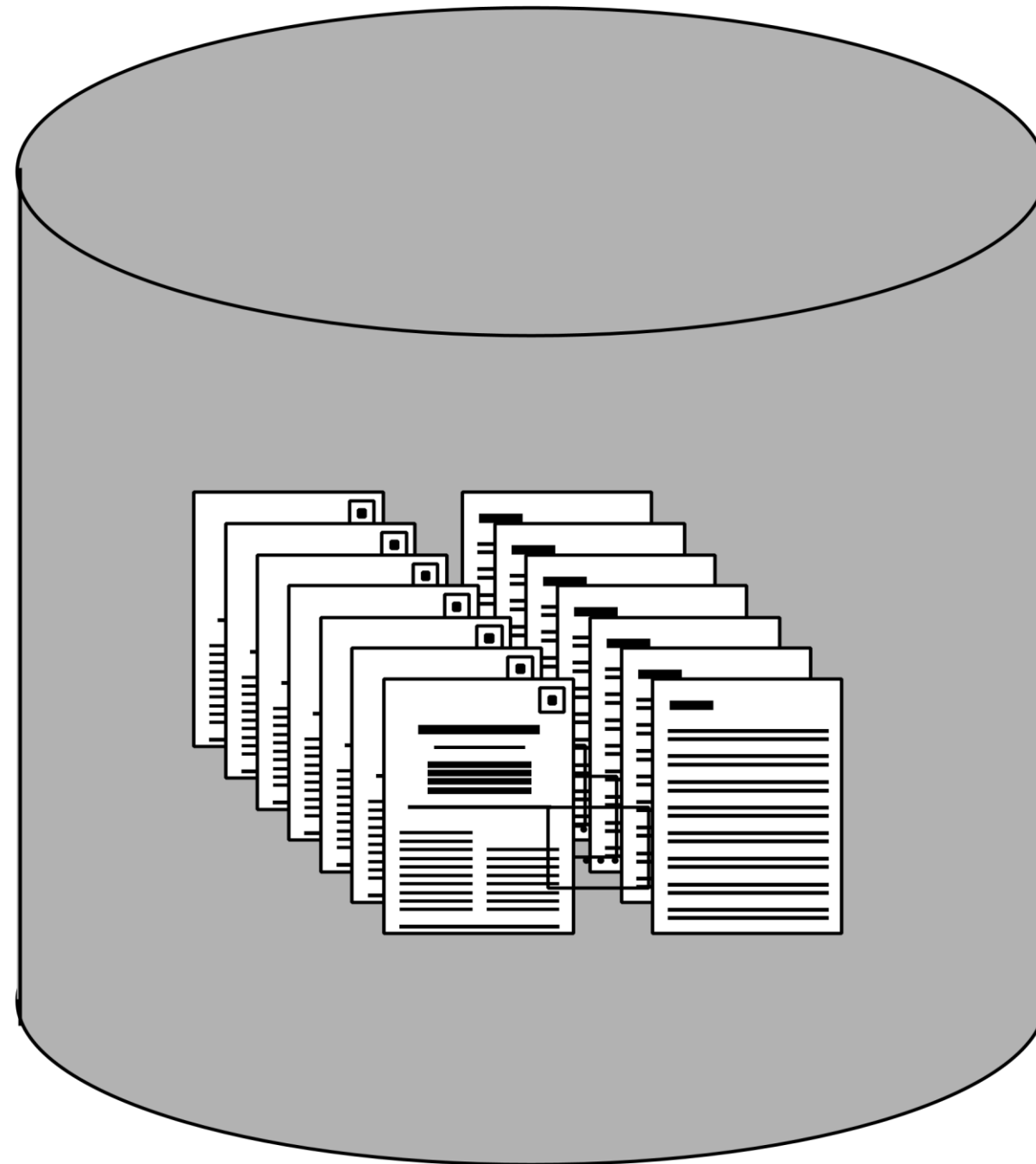
vision

- open system for research output

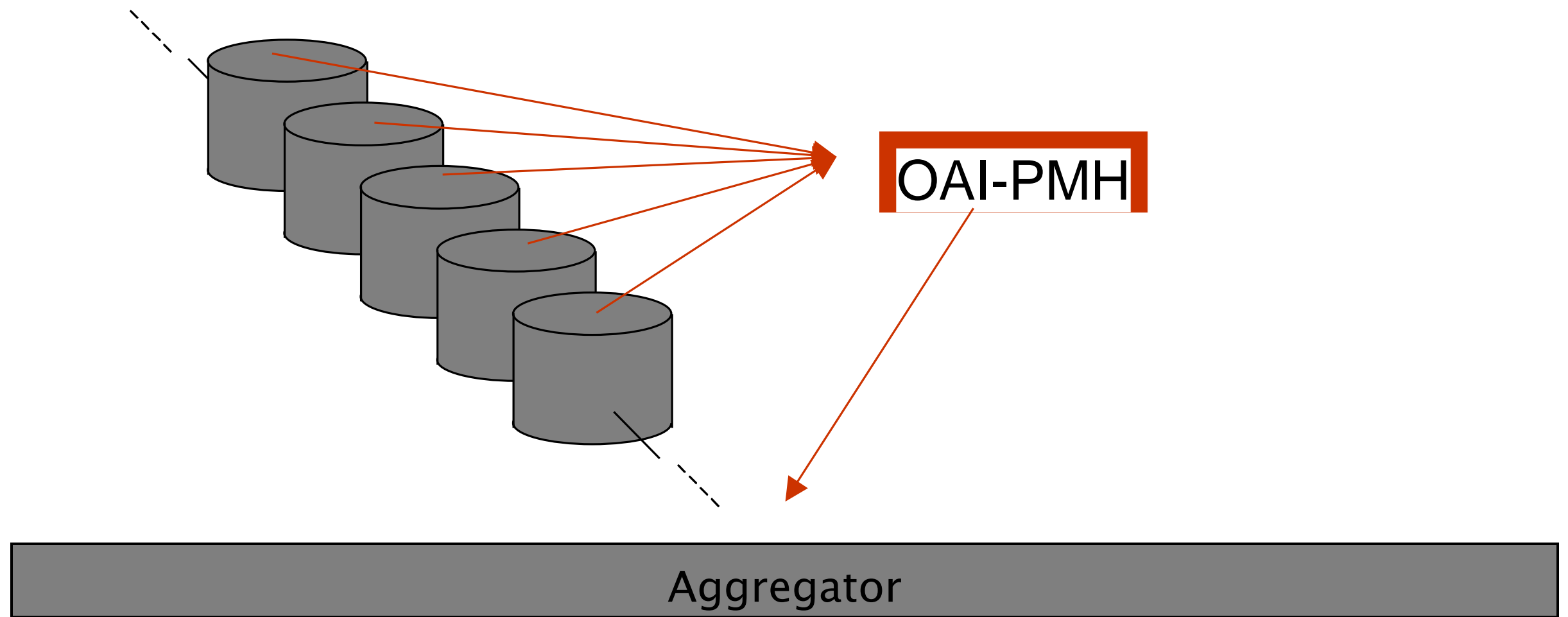


repository network „recipe“
All publications in a
repository

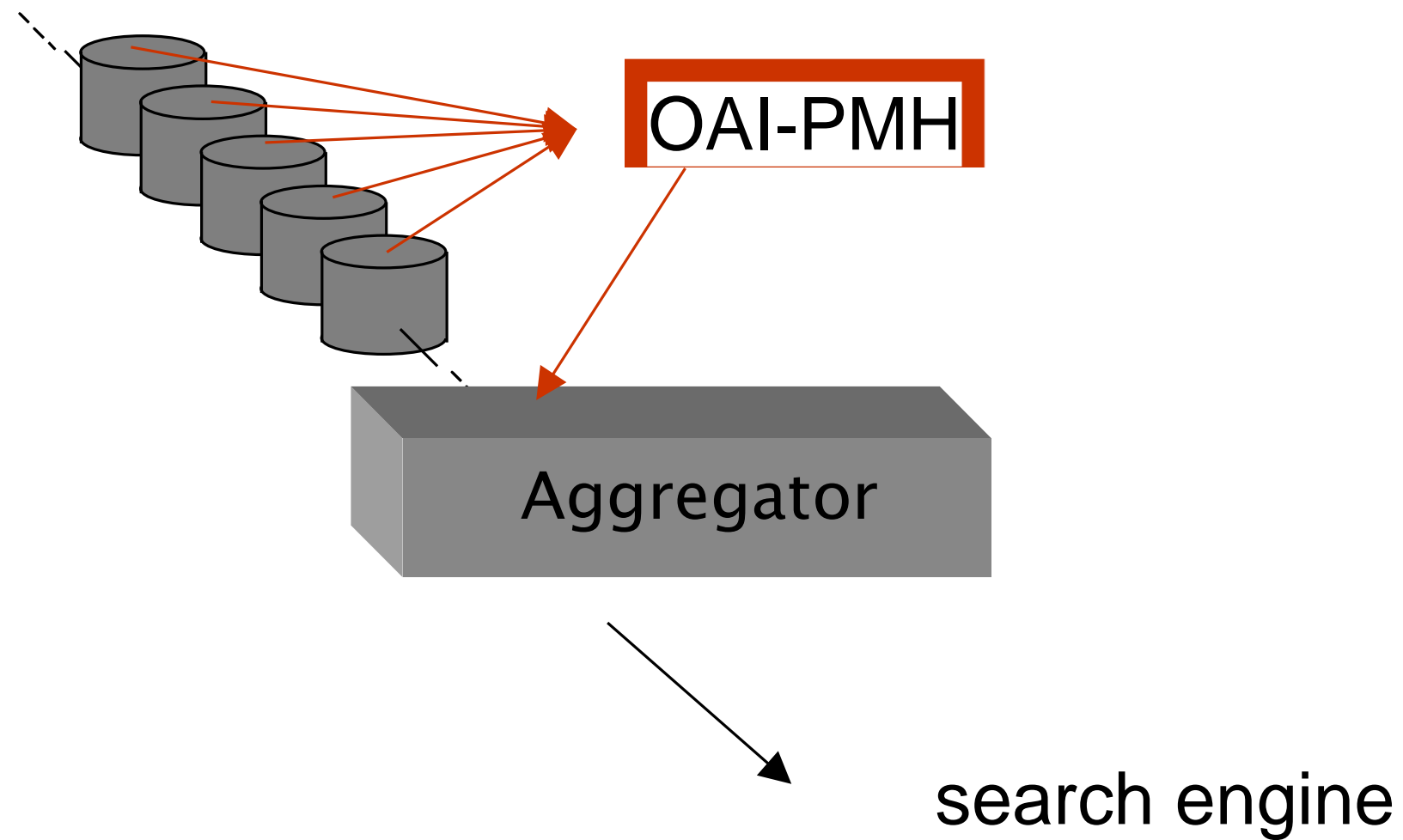


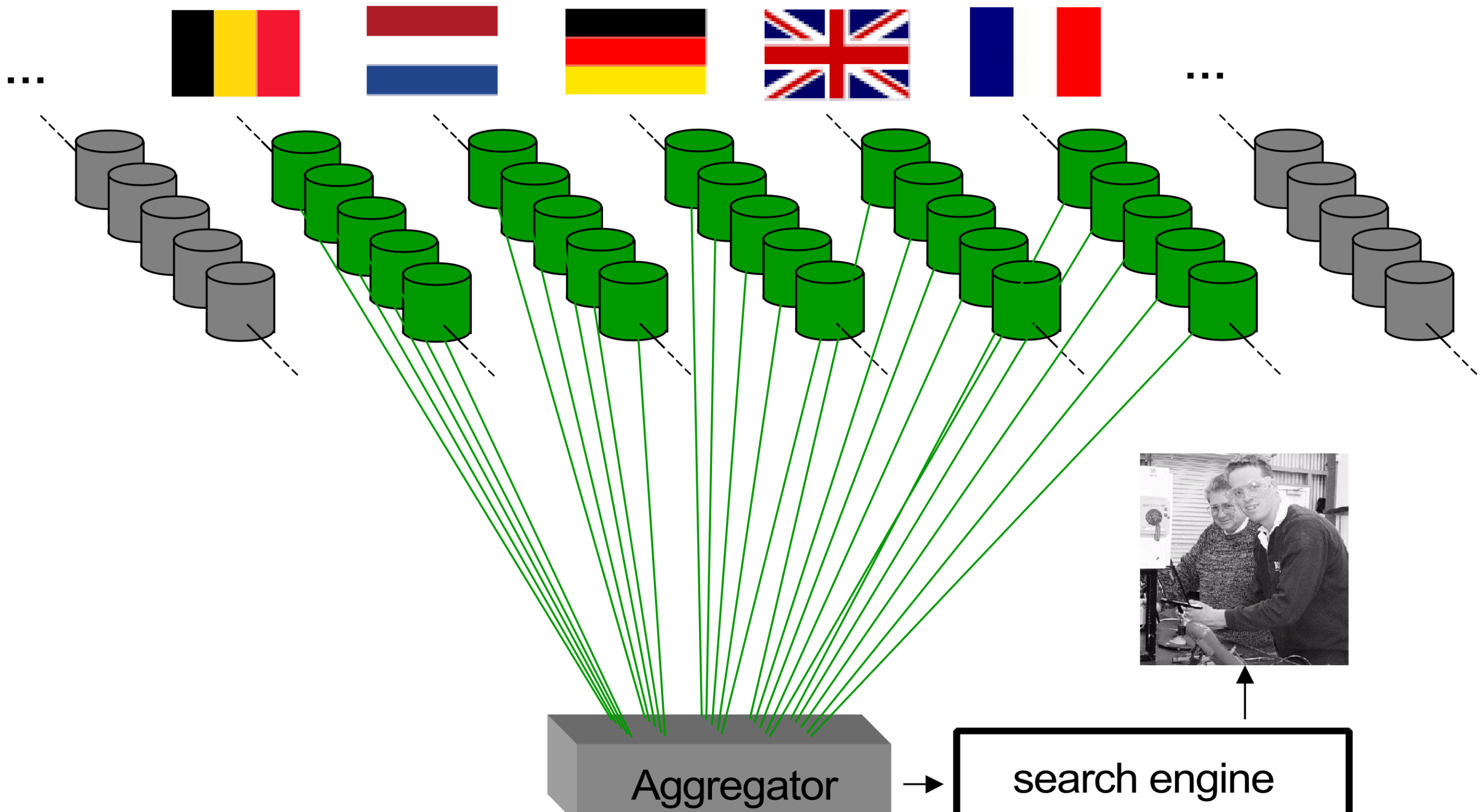


Aggregate with OAI-PMH



Feed back to research





Lift to an international scale



Mission accomplished?
Full text problem is not solved

Researchers do not retrieve enough full-texts

- Organizational dimension
- Technical dimension



Organizational dimension

Repositories are not sufficiently filled

- **Advocacy and Awareness-Raising**
 - Motivate researchers to populate repositories
 - Motivate institutional managers to mandate
 - Motivate policy makers to support
 - Motivate operators to curate data
 - Motivate developers to improve standards



Technical dimension

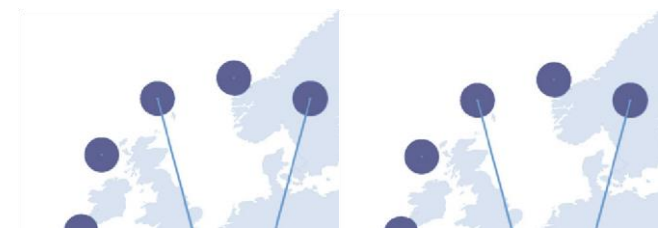
Building of Aggregations is not trivial!

- **Implementation Variability**
 - Full-text not homogeneously offered
 - metadata only, jump-off pages, authorization
 - full-text URLs in varying locations
- **Architectural Variability**
 - Local harvesting vs. aggregated harvesting

- Multiple service providers not complementary
 - Google-Scholar, Oaister, BASE or citebase

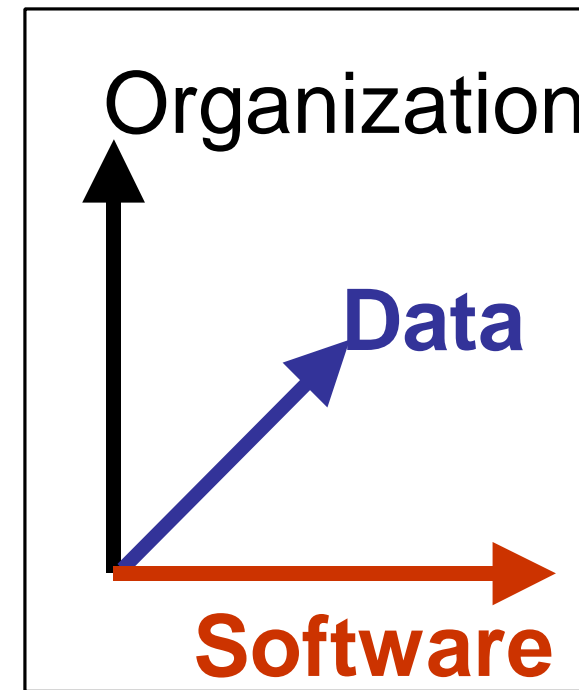
DRIVER

Digital Repository Infrastructure Vision for European Research



DRIVER-I objectives

“Step one towards a pan-European infrastructure for digital repositories”



- DRIVER-I is a test-bed for a
 - Organizational Framework
 - Data infrastructure
 - Software infrastructure
- >> contribute to solutions for full-text problems

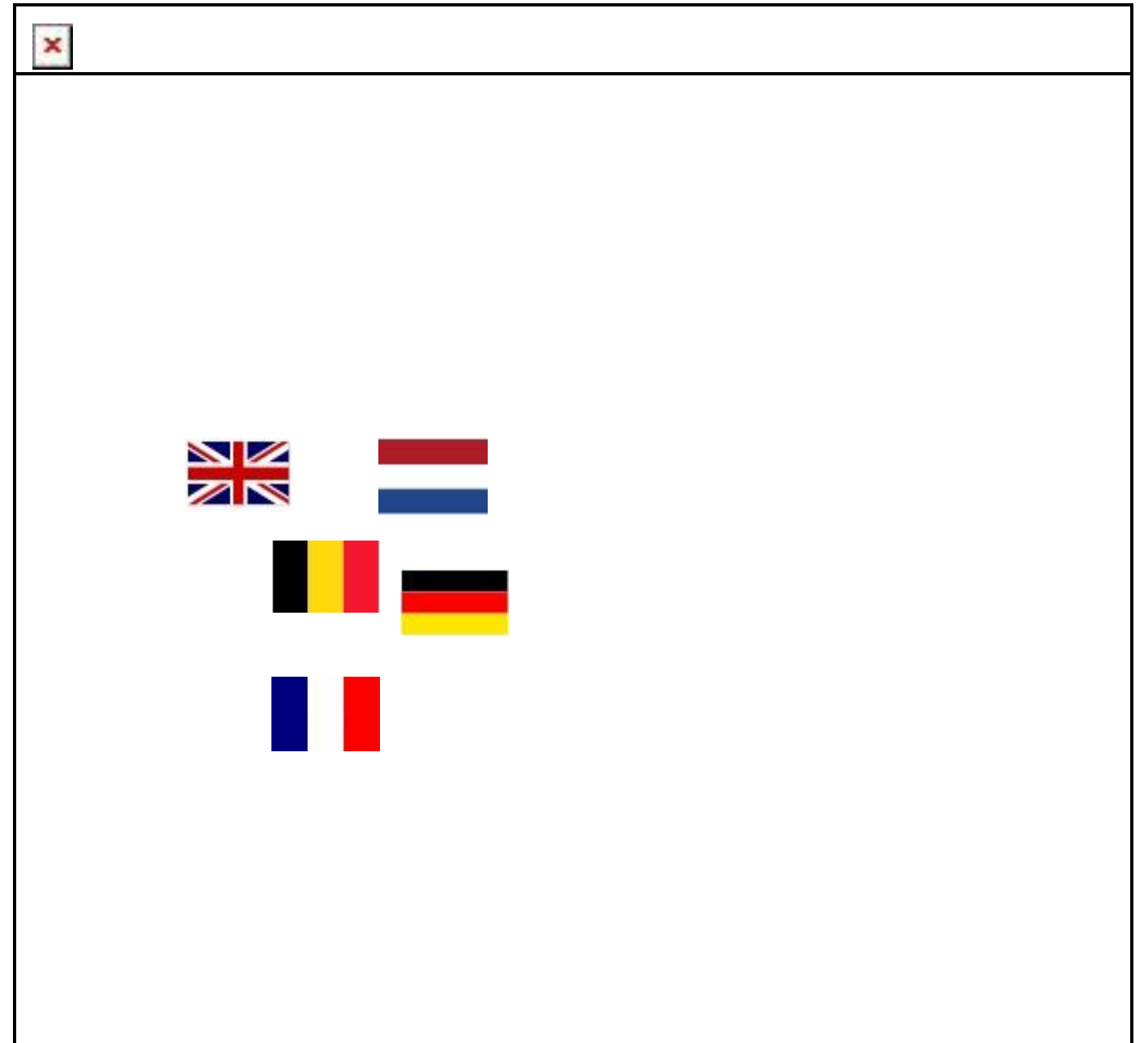
“Make it workable”

- Focus on **existing** repositories and services
- Focus on **Institutional** Repositories
 - Rapid **progress** over the last years
 - Inherent **sustainability** (e.g. libraries)
 - Adequate technical **homogeneity** (OAI-PMH)
- Focus on **textual** materials
- Focus on specific (test-bed) **countries**



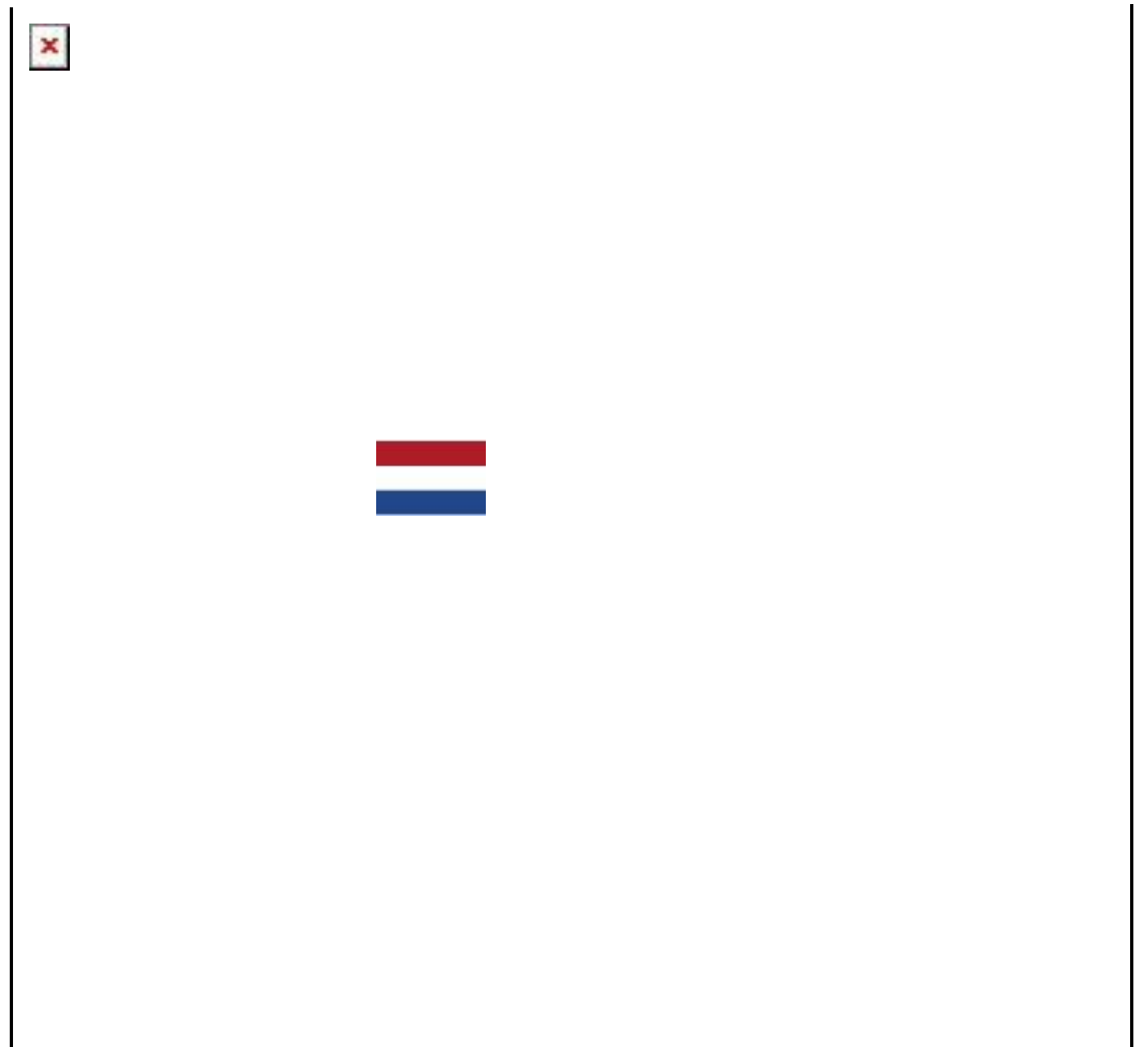
Organizational Framework

- 5 Test-bed countries
- Very different
 - Repository landscapes
 - Technologies
 - National approaches
 -





- National Federation
- Aggregated Network
- Sustainable Operation
- “Cream of Science”



>> Model for Distributed Network





Germany

- National Policies
- Pro-active, individual approach



– High quality certificate

>> Model for quality assurance





SHERPA

Great Britain

- National federation
- Advocacy focus
- ROMEIO IPR lookup



– OpenDoar Registry

>> Model for advocacy / added value services

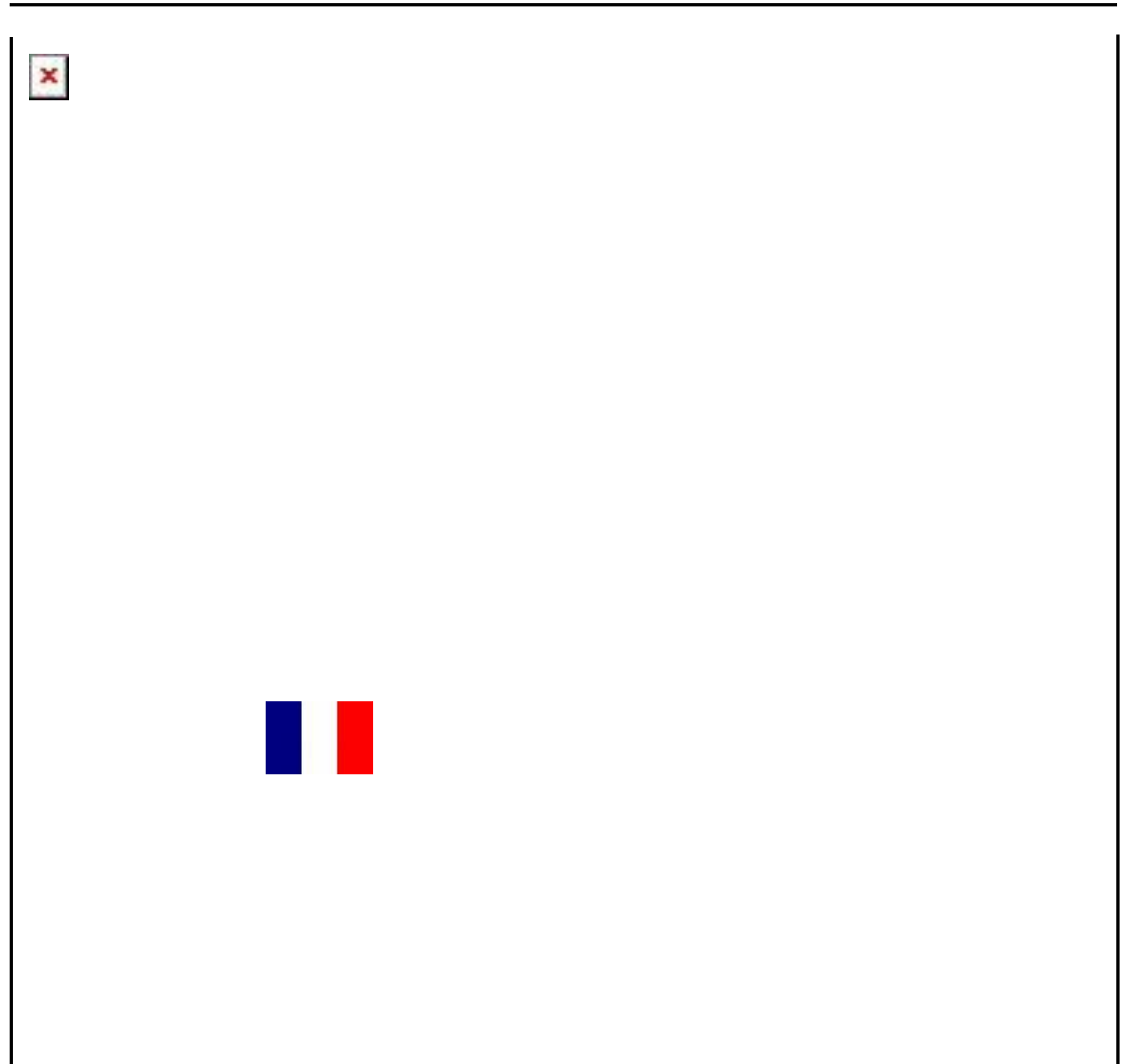


 *France*





centralized
scheme



>> Model for centralized network





Belgium

- 2006 no national federation
- 13 Rectors signed Berlin Declaration

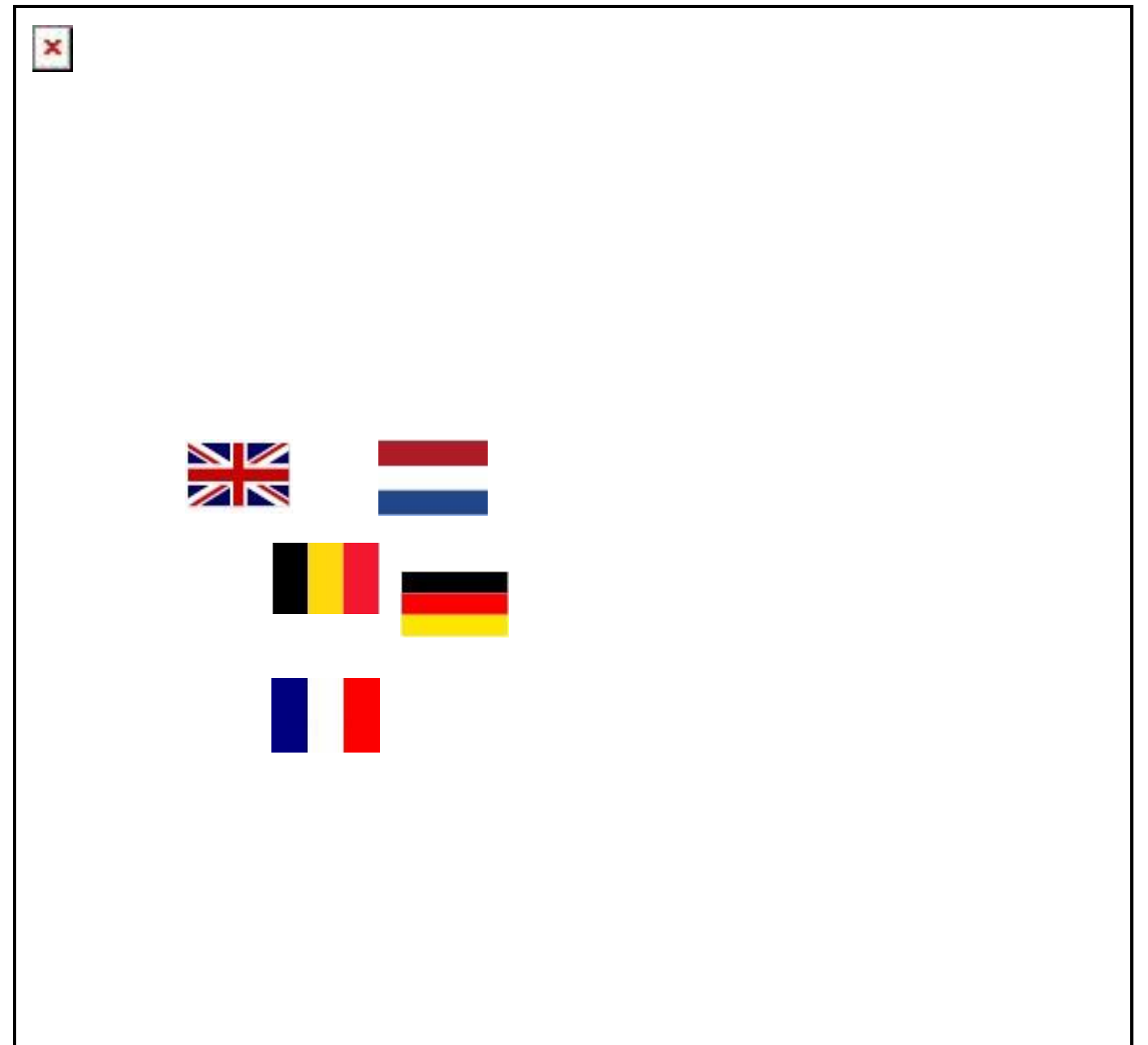


>> Model for network construction

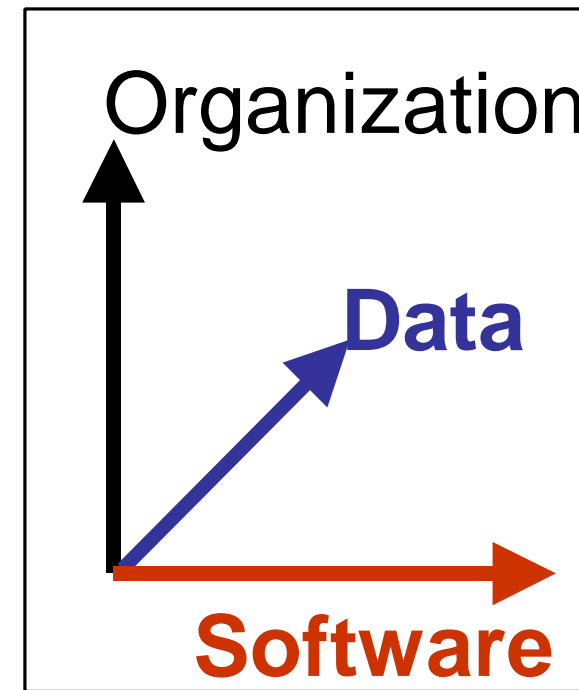


Full-Text-Guidelines as “glue”

- 60 “organized”
Repositories
- Solutions for full-text
 - Support of “sets”
 - Clear location of
URL
 - Resource harvesting



- Test-Validator
- **Spanish** Version of Guidelines
 - >> <http://www.driver-support.eu>



DRIVER-I objectives

“Step one towards a pan-European infrastructure for digital repositories”

DRIVER-I is a test-bed for a

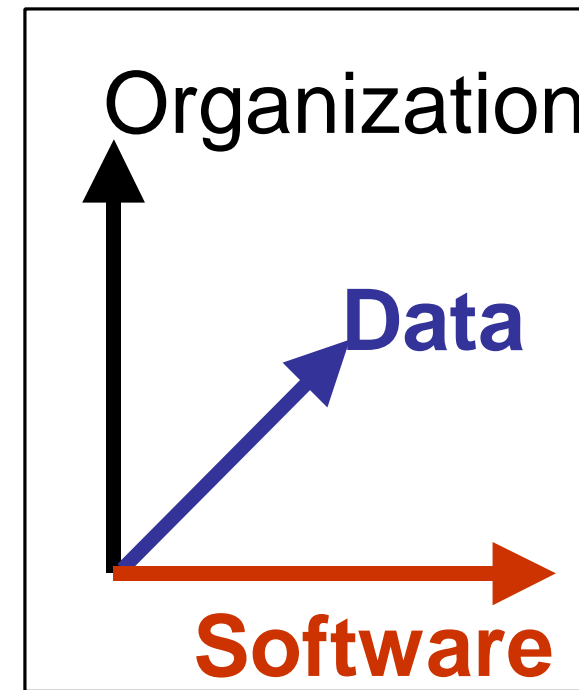
- Organizational Framework



- Data infrastructure

Guidelines

DRIVER-I objectives



“Step one towards a pan-European infrastructure for digital repositories”

DRIVER-I is a test-bed for a

- Organizational Framework

- Data infrastructure

Guidelines



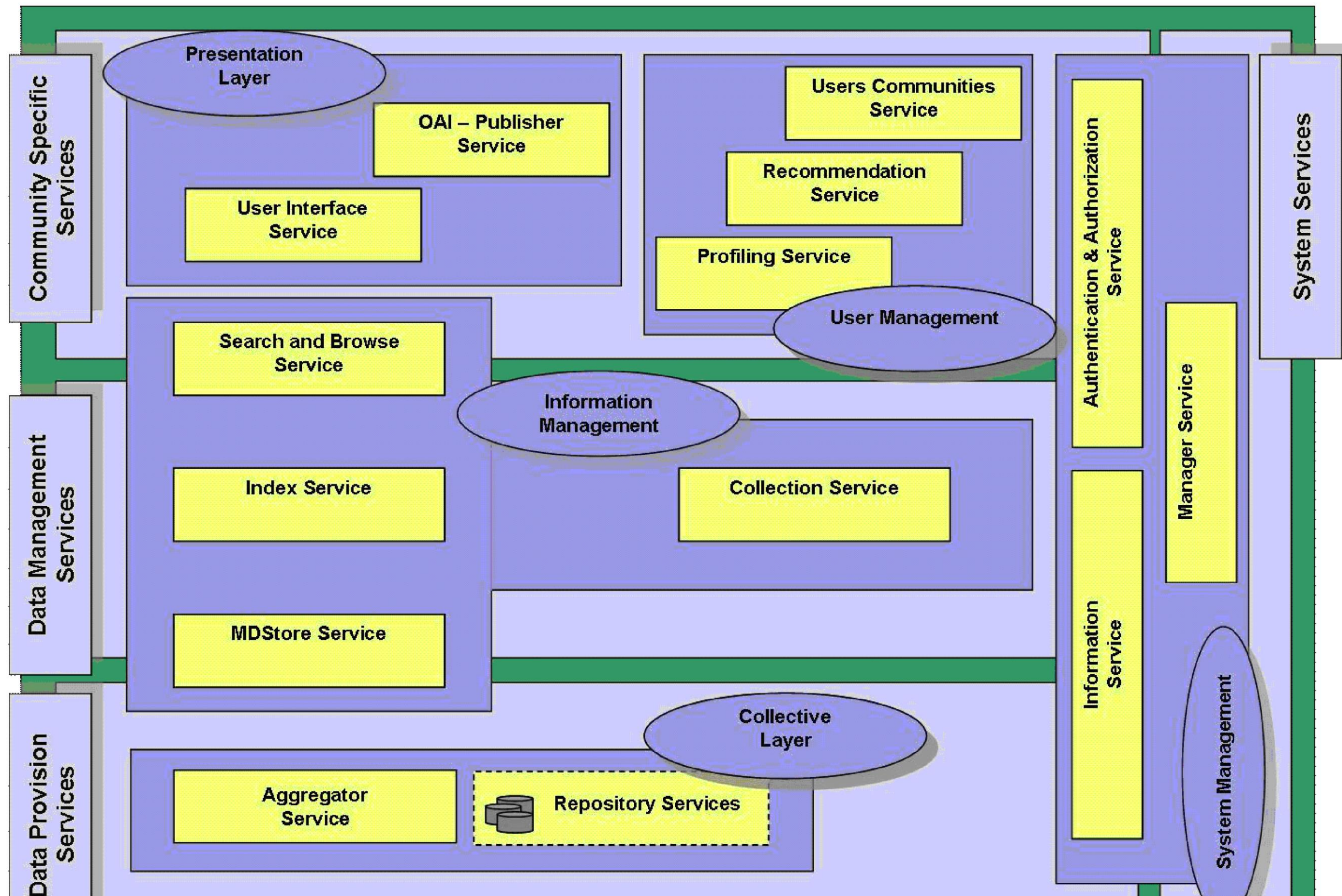
– Software infrastructure *Open Services*



An open pan-European software architecture

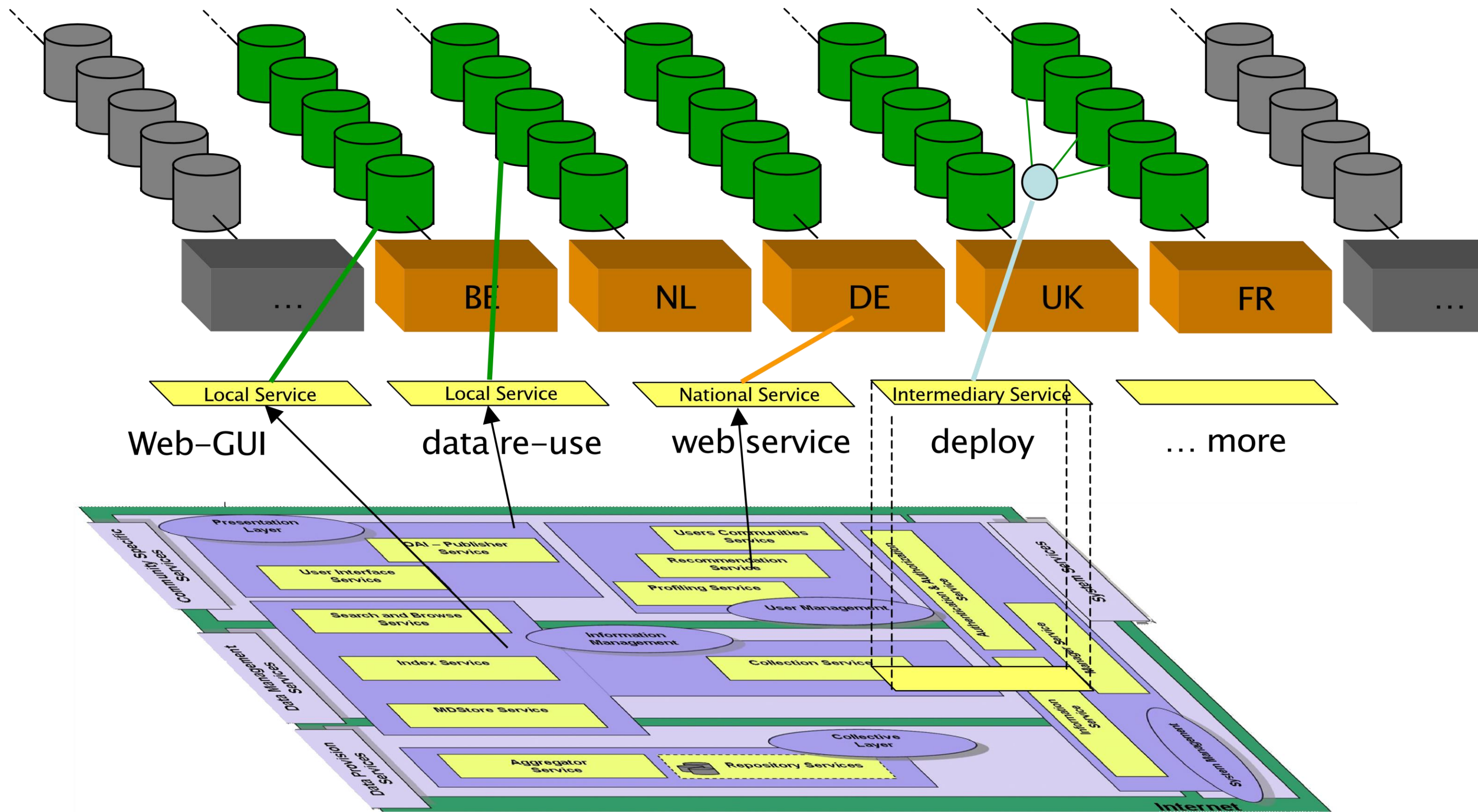


Software Infrastructure Test-



Bed





Software Infrastructure Test-



Bed



Search Results (7 documents)

Pages 1 of 1

<< < 1 > >>

THE STRUCTURE AND USE OF SHAPE-BASED NOUN CLASSES IN MIRAÑA (NORTH WEST AMAZON)

CREATOR(S): Seifart, Frank

DESCRIPTION: Miraña, an endangered Witotoan language spoken in the Colombian Amazon region, has an inventory of over 60 noun class markers, most of which denote the shape of nominal referents. Class markers in thi ...

REPOSITORY: DSpace at Radboud Univ. Nijmegen
[Repository Info](#) | [Repository's web site](#)

LANGUAGE(S): English

DOCUMENT: [View this document ...](#)

NOMINALIZATION AND ITS VARIOUS USES IN THULUNG.

CREATOR(S): Lahaussais, Aimee

DESCRIPTION: This paper looks at the various types of nominalization in Thulung Rai, an endangered language of Eastern Nepal, and traces the use of the nominalizer for a variety of functions throughout the languag ...

REPOSITORY: HAL - Hyper Article on Line
[Repository Info](#) | [Repository's web site](#)

LANGUAGE(S): English

Start new Search

MODIFY YOUR SEARCH

REFINE YOUR SEARCH

All Fields endangered languages

More Preferences

- Date of Publication
- Document type
- Document Language
- Repository
- Community
- Collection

SELECTED FIELDS

[hide details](#)

SEARCH HISTORY

• (endangered AND languages)

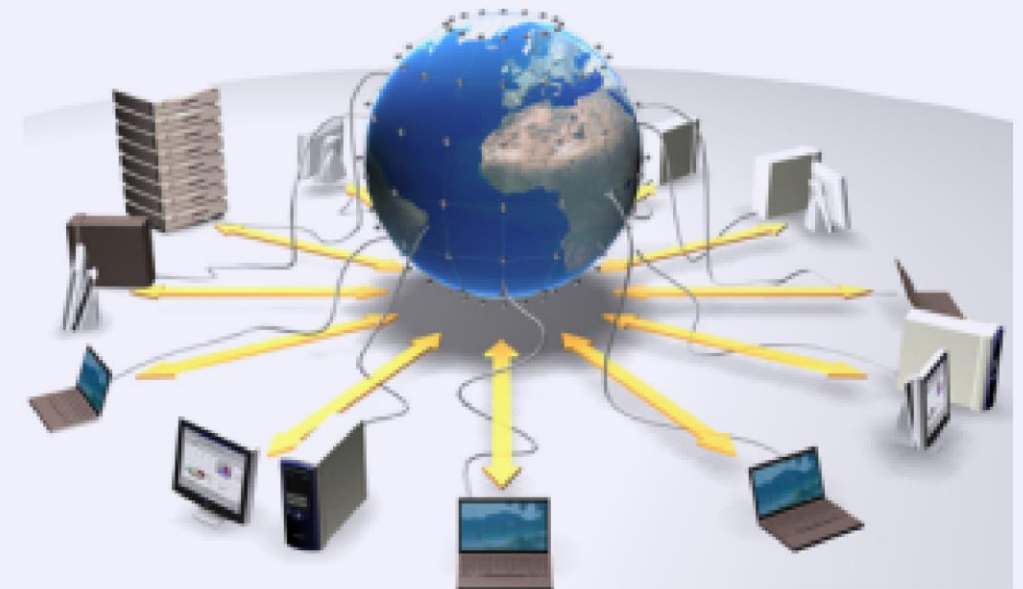
„Human“ portal for access



Welcome to DRIVER



Repository map



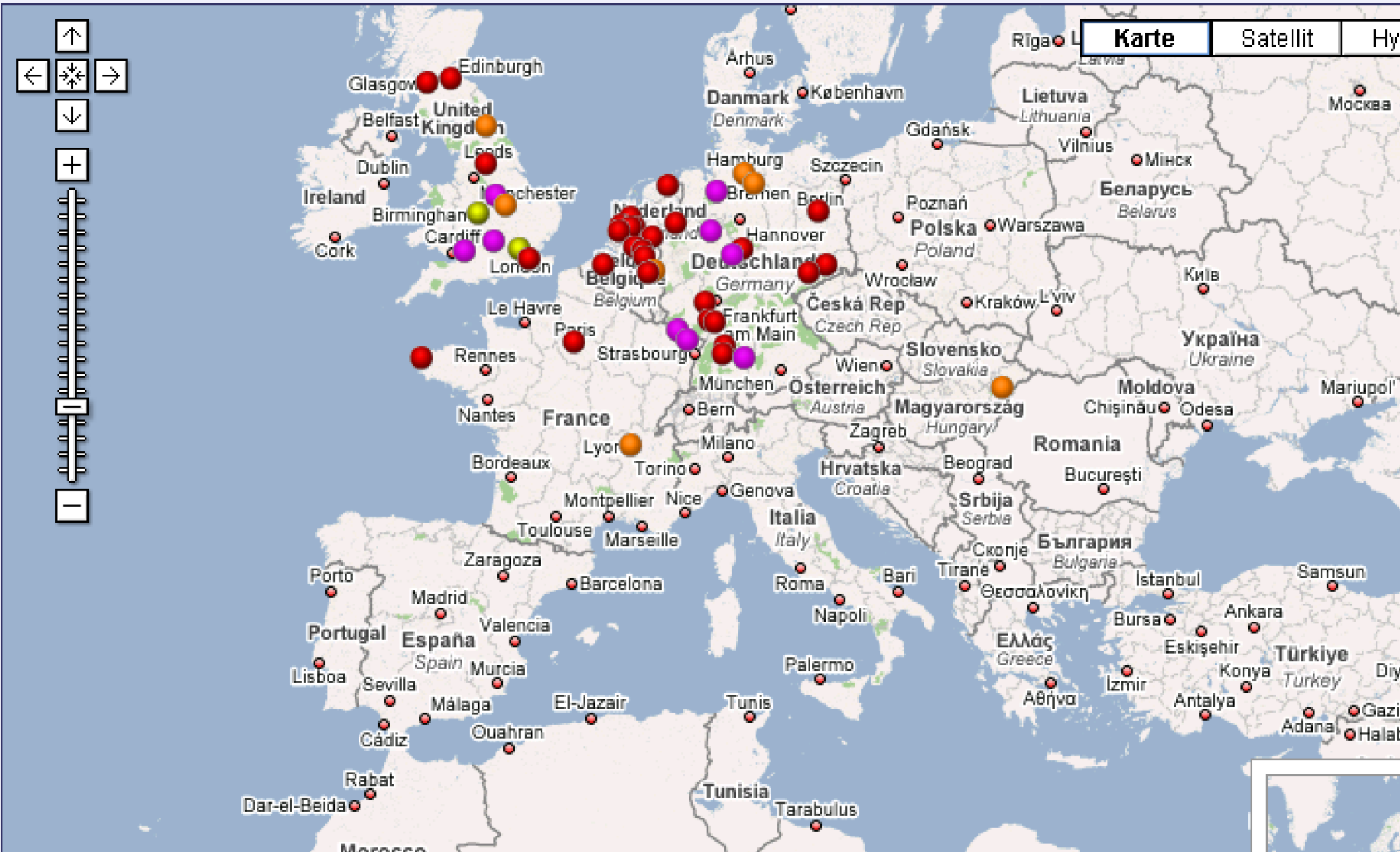
Network map

Infrastructural Tools



Number of records ● < 50 ● 50 - 500 ● 500 - 1000 ● >

- Repositories
- FR Archimer, Archive Institutionnelle de l'Ifremer
 - DE ask23 repository (lkw, hfbk hamburg, germany)
 - DE BieSO n - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)
 - UK Bristol Repository of Scholarly Eprints (ROSE)
 - UK British Library Research Archive
 - HU Debreceni Egyetem elektronikus Archivumanak (DEA)
 - NL Dissertations of the Universiteit van Amsterdam
 - NL DSpace at Open Universiteit Nederland
 - NL DSpace at Radboud Univ. Nijmegen
 - UK DSpace at the London School of Economics Library
 - BE DSpace at UGent
 - NI DSpace at University



Repository Landscape

Managing Aggregation



driver Digital Repository Infrastructure Vision for European Research

Home Services Repositories Network Data Structures Collections Schemas Aggregator

Welcome admin Logout

Aggregator > Aggregator

DRIVER Aggregator Manager - Admin Control Panel

List of Repositories

Nr.	Repository	Status	Last Harvesting Date	Harvestingtype	Harvesting schedule
1	University of Technics Hamburg, GERMANY, TUBdok	active	2007-05-28T23:34:44Z	REFRESH	WEEKLY
2	Dissertations of the Universiteit van Amsterdam	inactive	2007-06-01T10:36:14Z	REFRESH	WEEKLY
3	SciDok, der Wissenschafts-Server der Universitaet des Saarlandes	active	2007-05-28T23:45:10Z	REFRESH	WEEKLY
4	Royal Holloway Research Online	active	2007-05-28T23:37:38Z	REFRESH	WEEKLY
5	University Digital Archive of the University of Groningen, The Netherlands.	active		REFRESH	WEEKLY
6	DSpace at Open Universiteit Nederland	active	2007-05-29T13:13:52Z	REFRESH	WEEKLY
7	DSpace at Vrije Universiteit Amsterdam	inactive			
8	OAI-Repository SUB Goettingen	active	2007-05-28T23:49:49Z	REFRESH	WEEKLY
9	SOAS Eprints	active	2007-05-28T23:54:31Z	REFRESH	WEEKLY



Test of Compliance



driver Digital Repository Infrastructure Vision for European Research

Home Services Repositories Network Data Structures Collections Schemas Repository

Welcome admin Logout

Data structures List Aggregator > Repository

DRIVER Aggregator Manager - OAI Admin Panel

Repository Form

[List of Repositories](#)

Repository Information: [Identify](#) - [ListSets](#) - [ListMetadataFormats](#)

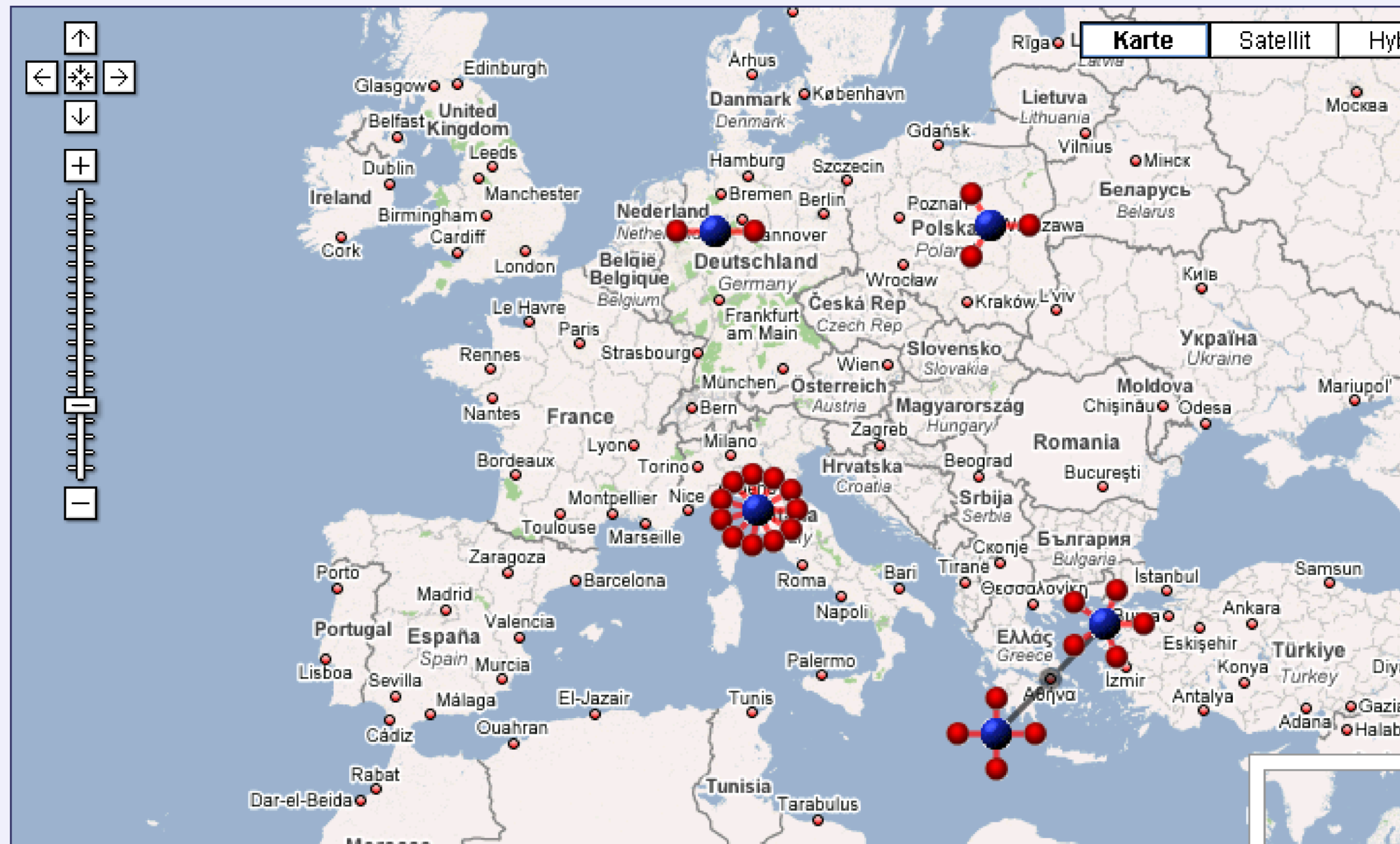
Record Information: [View ListRecords](#) [Test Mapping](#)

Start Harvesting (Current settings)

Repository:	SciDok, der Wissenschafts-Server der Universitaet des Saarlandes
Repository Identifier:	99-83409cf6-0d36-11dc-9ade-000347f19e46_UmVwb3NpdG9yeVNlcnZpY2VSZXNvdXJjZXMvUmVwb3NpdG9yeVNlcnZpY2VSZXNvdXJjZVR5cGU=
Harvesting instance	111-9de560c8-0d36-11dc-9ade-000347f19e46_SGFydmVzdGluZ0luc3RhbmNlRFNSZXNvdXJjZXMvSGFydmVzdGluZ0luc3RhbmNlRFNSZXNvdXJjZ
	Status: active



Hosting Nodes	
driver10.isti.cnr.it (146.48.87.161)	
8009 (IS_UI, CS_UI)	
8005 (DLM)	
8004 (TextEngine)	
8006 (Publisher)	
8008 (MS_RO)	
8010 (CS_Engine)	
8007 (IS_LookUp)	
8003 (ResultSet)	
8001 (IS_Registry)	
8000 (IS_SN)	
8002 (IS_Store)	
driver.di.uoa.gr (195.134.67.237)	
8104 (ResultSet)	
8103 (Index)	
8101 (ResultSet)	
8102 (ResultSet)	
8100 ()	
ubdriver.ub.uni-bielefeld.de (129.70.12.42)	



Software Infrastructure



ISTITUTO DI SCIENZA E TECNOLOGIE
DELL'INFORMAZIONE "A. FAEDO"



System Manager
orchestrating



several distributed
components



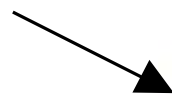
Poland



Authorization and Authentication enabling personalized services



Germany



BASE



Index services
providing access to
aggregated repository
content



 *Greece*



↓ University of Athens

Functionality
Services for search



and retrieval & Graphical User Interface



DRIVER-1 Summary

- Researchers need full-text access
- International cooperation needed
- Current repository system on the move
- But full-text access is hampered
- DRIVER tackles at European scale
 - Organizational framework
 - Data infrastructure



DRIVER-II –

– Software infrastructure

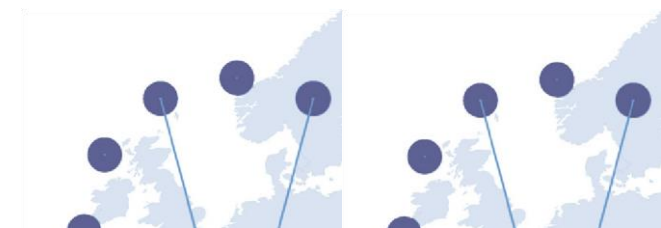
DRIVER-II

Digital Repository Infrastructure
Vision for European Research

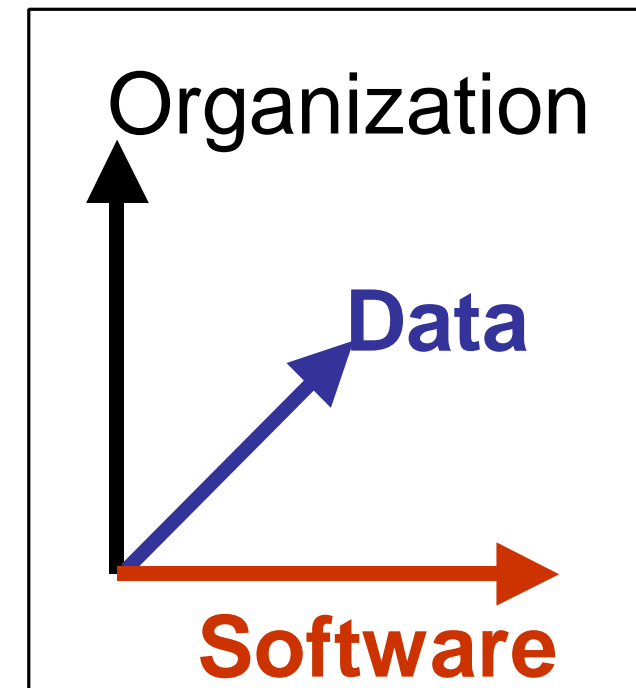
PHASE 2: 2008/2009

Overall Goals

- Organization



- Building a **Confederation** of European Digital Repositories
- Data
 - Extending the virtual Information Space over multiple and **heterogeneous repositories**
- Software
 - Consolidating and enhancing the Infrastructure to operate a **production quality system with advanced user functionalities**

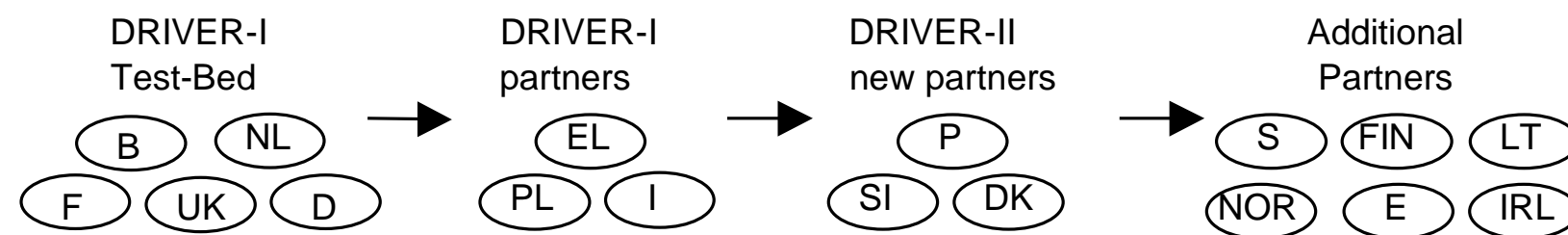


DRIVER-II –

Organization

- Confederation for European Digital Repositories

- Geographical Coverage IR Community



- **Liaison** with relevant organizations
- Community Building
 - Identification & support of **advocate** networks across Europe
 - **Promotion** of services to service and data providers & repository users
- Studies



DRIVER-II –

- Usage of **object descriptions** for the representation, management and sharing of **discipline specific data**
- Investigation of **new technologies** for future integration

Data

- DRIVER Information Space enhancement
 - Include additional, **non-textual**, types of resources
 - Extend the **typology of repositories** beyond those conforming to the OAI-PMH Object Model
- Focus on Enhanced Publications



DRIVER-II –

- Manage **combined packages** of textual resources with additional, interlinked material
- Complex Object Model Management
 - Extend the DRIVER **Object model definition** to describe the structure of Objects obeying to various Object Models

Software

- From testbed deployment to production-quality, full-scale system
 - **Maintain and enhance** the underlying system infrastructure
 - Adhere to continuous software development cycle
- Providing quality service operation and support to



DRIVER-II –

- **Service providers** with well defined APIs & documentation for twosided application integration
- **Repository managers** with feedback and tools
- Providing additional end-user related functionalities
 - **Advanced resource discovery** over heterogeneous types and formats of data
 - Enhanced **community & personalized** services
 - Advanced system **performance**

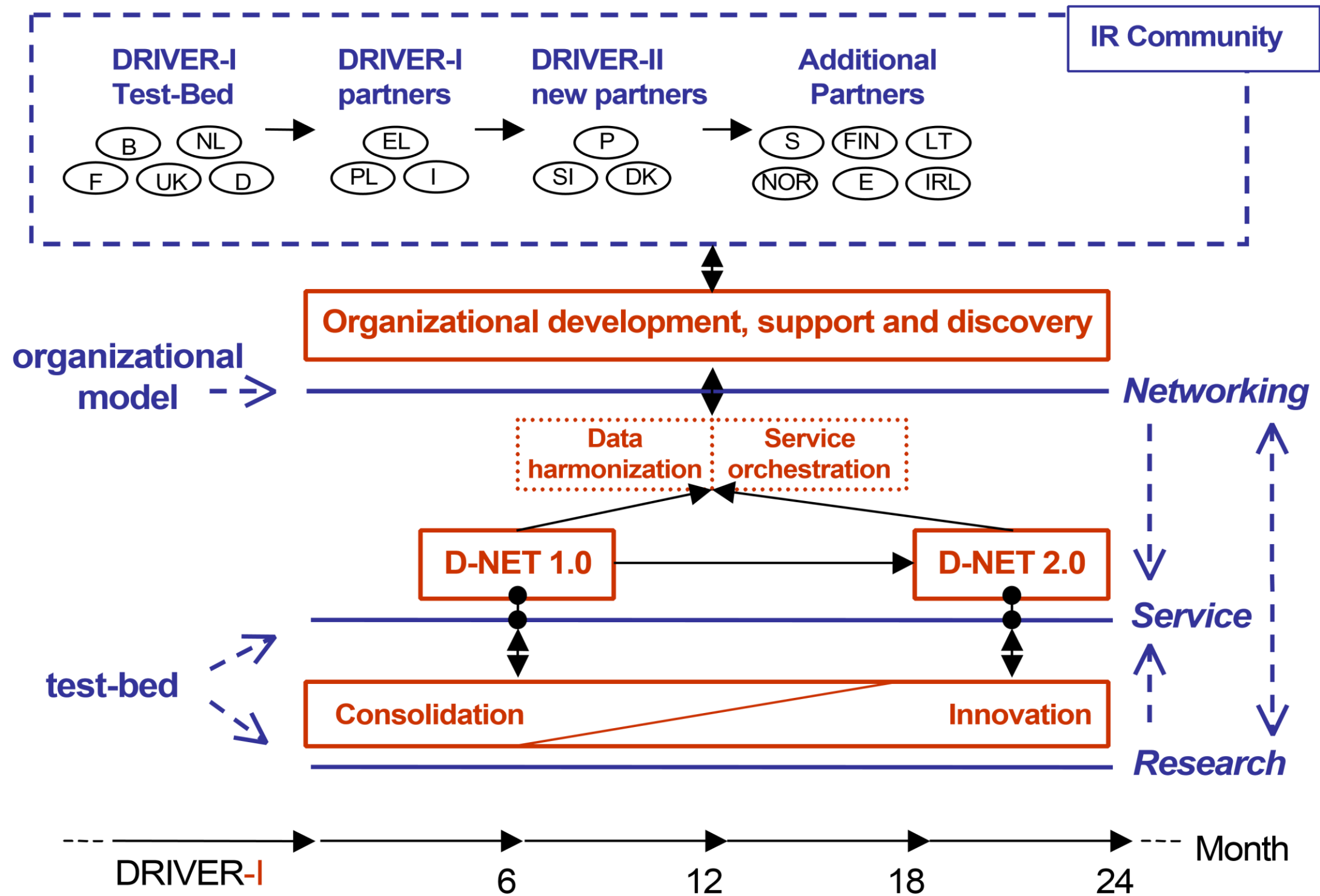


DRIVER-II –

Process



DRIVER-II –



Spanish co-operation

- Goal
 - Delegate in the Confederation
 - Participation in meetings
 - Feedback Spanish experiences
 - Country Correspondent / Interface
 - Describe national developements
 - Help with national aggregation („guidelines“)

- (mentor other countries / repositories)

Thanks!

