

European Vision of Data Infrastructure for eScience

*La Visión Europea de la Infraestructura de Datos para la e-
ciencia*

The Role of the DRIVER-Project

El papel del Proyecto-DRIVER

Recolecta-Meeting, Madrid 12-DEC-2008



What is DRIVER about?

De qué trata DRIVER?

DRIVER

=

Repositories

+

Research Infrastructure

Infraestructura para la investigación

What is DRIVER about?

DRIVER

=

Repositories

+

Research Infrastructure

Infraestructura para la investigación

*„In infrastructures, machines and administrators hide complexity from the end user
-- picture a subway system ...“*

*„En las infraestructuras, las máquinas y los administradores esconden la complejidad al usuario final
-- representa un sistema de metro...“*





パティスリー

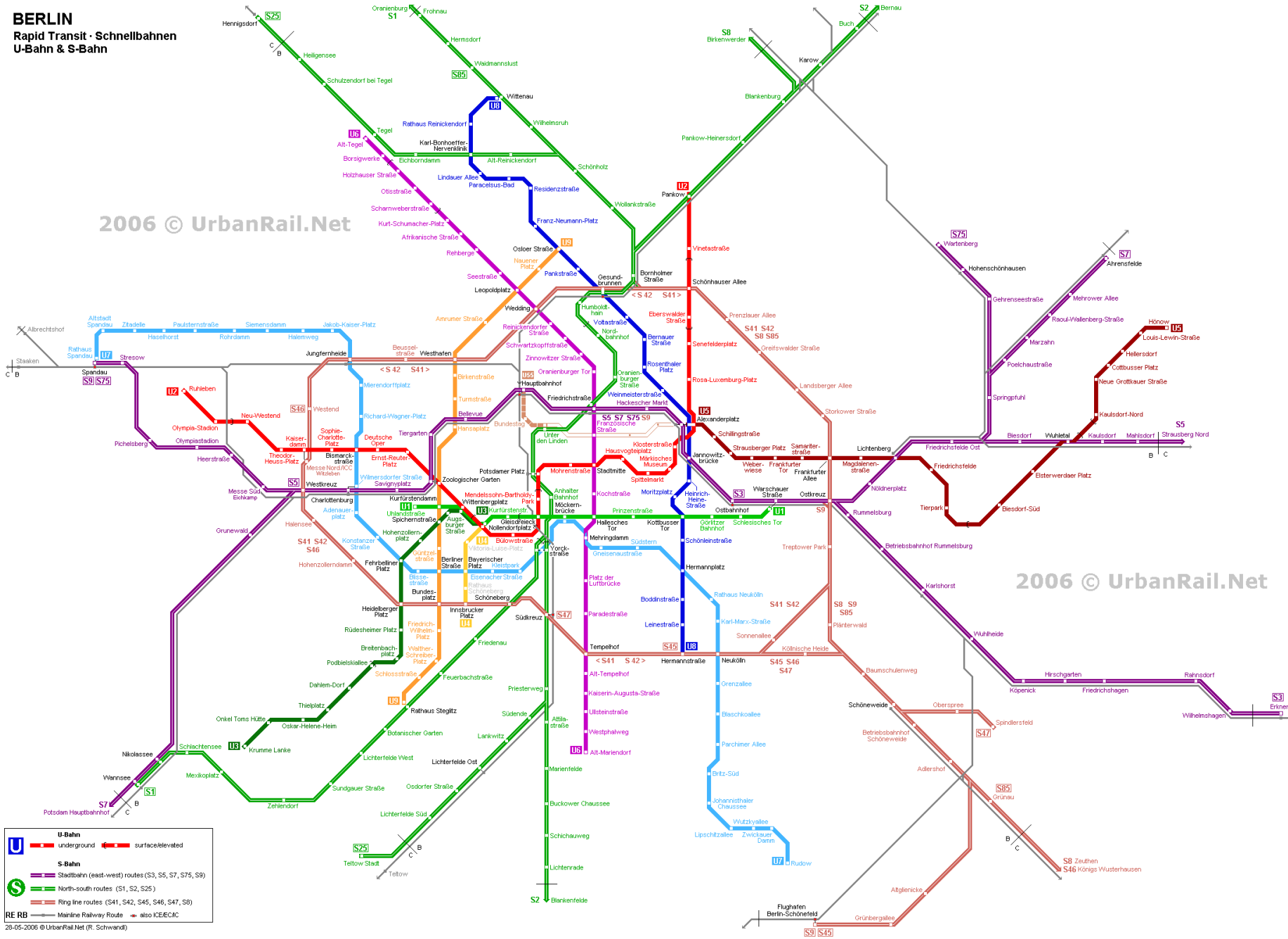


JR線



BERLIN
Rapid Transit · Schnellbahnen
U-Bahn & S-Bahn

2006 © UrbanRail.Net



2006 © UrbanRail.Net

U	U-Bahn
	underground
	surface/elevated
S	S-Bahn
	Stadtbahn (east-west) routes (S3, S5, S7, S75, S8)
	North-south routes (S1, S2, S25)
	Ring line routes (S41, S42, S45, S46, S47, S8)
	Mainline Railway Route
	also ICE/EC/IC

28-05-2006 © UrbanRail.Net (R. Schwandt)

VBB-Fahrinfo

Routeninfo

von

nach

[jetzt](#) [später](#) [öfter](#)

oder: -----

Haltestelleninfo

[Start](#)

oder: -----

Linieninfo

[Start](#)

[Routenplaner](#)

[Haltestellenaushang](#)

[Fahrplanbuch Online](#)

[Verbindungen](#) | [öfter fahren](#) | [auf dem Handy speichern](#)

Ihre Verbindungen

von: Berlin Friedrichstr. [Ihr Start- oder Zielpunkt ist anders?](#) **Datum:** Fr, 22.08.08
nach: Dahlem-Dorf (U) **Zeit:** 13:46 (Abfahrt)

[« früher »](#) | [später »](#) [« Erste Fahrt »](#) | [Letzte Fahrt »](#)

Details	Start/Ziel	Datum	Zeit	Dauer	Verkehrsmittel
<input checked="" type="checkbox"/>	S+U Friedrichstr. Bhf (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:42 an 14:15	0:33	
<input type="checkbox"/>	S+U Friedrichstr. Bhf (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:43 an 14:15	0:32	
<input type="checkbox"/>	S+U Friedrichstr. Bhf (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:46 an 14:16	0:30	
<input type="checkbox"/>	S+U Friedrichstr. Bhf (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:47 an 14:20	0:33	
<input type="checkbox"/>	S+U Friedrichstr. Bhf (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:49 an 14:20	0:31	

alle → [Details anzeigen](#) → [Drucken](#) → [Anfrage ändern](#) → [Neue Anfrage](#) → [Rückfahrt](#)

Detailansicht - Verbindung 1

Routenpunkte	Datum	geplant	erwartet	Gleis	Linien	Bemerkungen
S+U Friedrichstr. Bhf (Berlin)	22.08.08	ab	13:42			Richtung: U Alt-Mariendorf (Berlin) barrierefreie Bedienung, Fahrradmitnahme möglich
U Hallesches Tor (Berlin)		an	13:47			
U Hallesches Tor (Berlin)		ab	13:51			Richtung: U Krumme Lanke (Berlin) barrierefreie Bedienung, Fahrradmitnahme möglich
U Dahlem-Dorf (Berlin)		an	14:15			

Dauer: 0:33; Verbindung besteht nicht täglich, 22. Aug bis 30. Okt 2008 Mo - Fr; nicht 3. Okt

[Diese Verbindung ausdrucken](#) → [auf dem Handy speichern](#) → [als Text anzeigen](#) [Fahrpreis anzeigen](#)

Weitere Möglichkeiten

<http://www.vbb-fahrinfo.de/>





Has one of our people
made your day?

Tickets



Bevies free at
Off-peak times

9:12:20



© CSqou



Research infrastructure: EU-vision

Infraestructura para la investigación: la visión de la UE

Connecting the finest minds
Sharing and federating the best scientific resources
Building global virtual communities
Conectando las mejores mentes
Compartiendo los mejores recursos científicos federados
Construyendo comunidades virtuales globales



<http://www.driver-repository.eu/Summit1/Campolarao%20MCAM%20Driver%20event.ppt>

Chromosomal Locations Drug Names Protein/Gene STS Marker OMIM Reference @neurIST mSNP Normalized SNP MeSH Disease

1. Novel mechanism of endothelin-1-induced vasospasm after subarachnoid hemorrhage.

Pubmed 17392694 Authors: An Xie, Yasuo Aihara, Vitali A Bourji, Elena Nikitina, Babak S Jahromi, Zhen-Du Zhang, Masataka Takahashi, R Loch Macdonald, Date: 2007-10- Journal: Journal of cerebral blood flow and metabolism: official journal of the International Society of Cerebral Blood Flow and Metabolism

Cerebral vasospasm is a major cause of morbidity and mortality after aneurysmal subarachnoid hemorrhage (SAH). It is a sustained constriction of the cerebral arteries that can be reduced by endothelin (ET) receptor antagonists. Voltage-gated Ca(2+) channel antagonists such as nimodipine are relatively less effective. Endothelin-1 is not increased enough after SAH to directly cause the constriction, so we sought alternate mechanisms by which ET-1 might mediate vasospasm. Vasospasm was created in dogs, and the smooth muscle cells were studied molecularly, electrophysiologically, and by isometric tension. During vasospasm, ET-1, 10 nmoL, induced a nonselective cation current carried by Ca(2+) in 64% of cells compared with in only 7% of control cells. Nimodipine and 2-aminoethoxydiphenylborate (a specific antagonist of store-operated channels) had no effect, whereas SKF96365 (a nonspecific antagonist of nonselective cation channels) decreased this current in vasospastic smooth muscle cells. Transient receptor potential (TRP) proteins may mediate entry of Ca(2+) through nonselective cationic pathways. We tested their role by incubating smooth muscle cells with anti-TRPC1 or TRPC4, both of which blocked ET-1-induced currents in SAH cells. Anti-TRPC5 had no effect. Anti-TRPC1 also inhibited ET-1 contraction of SAH arteries in vitro. Quantitative polymerase chain reaction and Western blotting of seven TRPC isoforms found increased expression of TRPC4 and a novel splice variant of TRPC1 and increased protein expression of TRPC4 and TRPC1. Taken together, the results support a novel mechanism whereby ET-1 significantly increases Ca(2+) influx mediated by TRPC1 and TRPC4 or their heteromers in smooth muscle cells, which promotes development of vasospasm after SAH.

2. Endothelial cells from human cerebral aneurysm and arteriovenous malformation release ET-1 in response to vessel rupture.

Pubmed 17016610 Authors: Elio Boscolo, Giacomo Pavesi, Paolo Zampieri, Maria Teresa Conconi, Chiara Calore, Renato Scienza, Pier Paolo Parngotto, Marcella Folini Date: 2006-11- Journal: International journal of molecular medicine

Cerebral aneurysms and arteriovenous malformations (AVM) are a common cause of stroke and cerebral hemorrhage. Both are often discovered when they rupture, causing subarachnoid hemorrhage (SAH). SAH-induced vasospasm is mediated by enhanced vasoconstriction due to endothelin-1 (ET-1). We investigated whether endothelial cells (ECs) obtained from aneurysm and AVM express phenotypic and genotypic alterations contributing to the development of vasospasm after SAH. We isolated ECs from human AVM and aneurysm and then confirmed their EC origin by polymerase chain reaction and immunocytochemistry with endothelial markers. Experiments were also carried out with human cerebral microvascular and umbilical vein ECs (HCECs and HUVECs respectively) for comparison. We tested EC proliferation ability and microtubule formation in Matrigel at different cell passages. Five aneurysm (3 ruptured, 2 unruptured) and 3 AVM (2 ruptured, 1 unruptured) ECs were tested for ET-1 release in the culture medium. Aneurysm and AVM ECs expressed von Willebrand factor, Adrenomedullin, and exhibited a progressive reduction of proliferation and in vitro angiogenic ability after the V passage. Significantly higher levels of ET-1 have been detected in ECs from ruptured aneurysms and AVMs. We report the first successful isolation and characterization of primary EC lines from human cerebral vascular lesions. Augmented release of ET-1 is correlated with the rupture of the abnormal vessel confirming its role in vasospasm after SAH. Furthermore, ECs obtained from these vascular malformations can be used as an experimental model to study SAH-induced vasoconstriction.

Documents

Statistics

intracranial AND aneurysm AND

The following entities relating to 'intracranial'

Export options: CSV | Excel | XML

- Genes / Proteins
- Chromosomal Location
- STS Marker
- mSNP
- Normalized SNP
- Drug Names
- OMIM Reference
- MeSH Disease
- Disease Terminology

Select Entity	Relative Entropy
<input checked="" type="checkbox"/> ELN	0.3993
<input checked="" type="checkbox"/> PND1	0.395
<input checked="" type="checkbox"/> NOS3	0.2227
<input checked="" type="checkbox"/> ENG	0.1632
<input checked="" type="checkbox"/> APOE	0.1485
<input checked="" type="checkbox"/> LOX	0.1447
<input checked="" type="checkbox"/> SERPINA1	0.1265
<input checked="" type="checkbox"/> PND2	0.1201
<input checked="" type="checkbox"/> MMP9	0.1072
<input checked="" type="checkbox"/> LPA	0.0844
<input checked="" type="checkbox"/> COL3A1	0.0806
<input checked="" type="checkbox"/> TMP2	0.0751
<input checked="" type="checkbox"/> ACE	0.0705
<input checked="" type="checkbox"/> TMP1	0.0699
<input checked="" type="checkbox"/> ENTROP4	0.067
<input checked="" type="checkbox"/> FBN2	0.0613
<input type="checkbox"/> OFD1	0.0511
<input type="checkbox"/> TF	0.0481
<input type="checkbox"/> COL4A1	0.0473
<input type="checkbox"/> LMK1	0.0456

ChemoCR GUI

Input: Bitmaps

Output: Molecules

The screenshot shows the ChemoCR GUI interface. On the left, there are chemical reaction schemes labeled (IV), (V), (VI), and (VII). A reaction (VI) is highlighted with a red dashed arrow pointing from the 'ChemoCR GUI' text. Below the schemes, there is a 'Scheme 3' section showing a deprotection reaction. On the right, there is a table with columns for 'Molecular Weight', 'Molecular Weight', and 'Molecular Weight'. The table contains several rows of chemical structures and their corresponding molecular weights.

Fraunhofer SCAI

- **Connectivity** is present – e.g. GEANT2
- *La conectividad ya está presente – ej. GEANT2*
- **Data and repositories** are present
- Los Data y los repositorios ya están presentes
- **Stand-alone solutions** are present
- Las soluciones “stand-alone” ya están presentes
- **“Gestalt”** of research infrastructure unclear
- La configuración de la infraestructura de investigación no está clara
- **DRIVER** contributes specific parts:
- DRIVER contribuye con partes específicas:
 - A network of repositories (una red de repositorios)
 - A run-time system for virtual services (un sistema “run-time” para servicios virtuales)
- **DRIVER** Integrates with connectivity and middleware developments “in the cloud”
- DRIVER se integra en la “nube” con conectividad y desarrollos de middleware
 - Internet standards, service-based ... (estándares de internet, orientada a servicios...)

What is DRIVER about?

DRIVER

=

Repositories

+

Research Infrastructure

Repositories: starting point

Repositorios: el punto de partida

- „Electrification“ makes **scholarly information** increasingly **volatile and ubiquitous** (la naturaleza „electrónica“ de la información científica la hace cada vez más volátil y ubicua)
- Immediate and transparent **access to information** is increasingly crucial (el acceso inmediato y transparente a la información es cada vez más crucial)
- **Repositories** can help to provide access (los repositorios pueden ayudar a proporcionar acceso)
- **Data infrastructure** is built on repositories (la infraestructura de datos se soporta sobre los repositorios)
 - They are **persistent and open** (son persistentes y abiertos)
 - They are designed for **machine-access** (están diseñados para un acceso por las máquinas)

The Situation of Digital Repositories

La situación de los repositorios digitales

- 1000+ **institutional** repositories globally
- 1000+ *repositorios institucionales en todo el mundo*

- Large “**dark figure**” (*Un gran número de “tipo oscuro”*)
 - Many others: **disciplinary, national, data ...**
 - *Muchos otros: temáticos, nacionales, de datos...*

- different **content types**: text, primary data, learning materials, multimedia, software etc.
- *Diferentes tipos de contenidos: texto, datos en bruto, objetos de aprendizaje, multimedia, software, etc.*

- **Document-types**: pre-prints, postprints, technical reports, dissertations, ...
- *Tipos de documentos: pre-prints, postprints, informes técnicos, tesis...*
- **Different Software-Platforms**
- *Diferentes Plataformas de software*

The case of institutional repositories

El caso de los repositorios institucionales

- Open **content servers** offering objects in a **machine readable** form
- *Servidores de contenido abierto que ofrecen objetos en una forma legible por las máquinas*

- **Basis for transparent information landscape**
- *La base para un paisaje de información transparente*

- **High Standardisation** – with subtleties (see below)
- *Alto nivel de estandarización – con algunas sutilezas*
 - Document domain works with OAI-PMH
 - *(el ámbito de los documentos funciona con el OAI-PMH)*

- **International Registries**
- *Registros internacionales*
 - OpenDOAR, ROAR ...

- **Search engines**
- *Motores de búsqueda*
 - BASE, OAIster, Google Scholar ...

Researcher's perspective

La perspectiva de los investigadores

- **Fragmented** information landscape
- *Un paisaje de información fragmentado*

- **Search engines** provides access – partly
- *Los motores de búsqueda proporcionan acceso – parcialmente*

- **Quality & re-usability** varies case to case
- *Calidad y reusabilidad varía según los casos*

- **Value-added services hardly covered** – e.g. text mining
- *Los servicios de valor añadido están poco cubiertos*

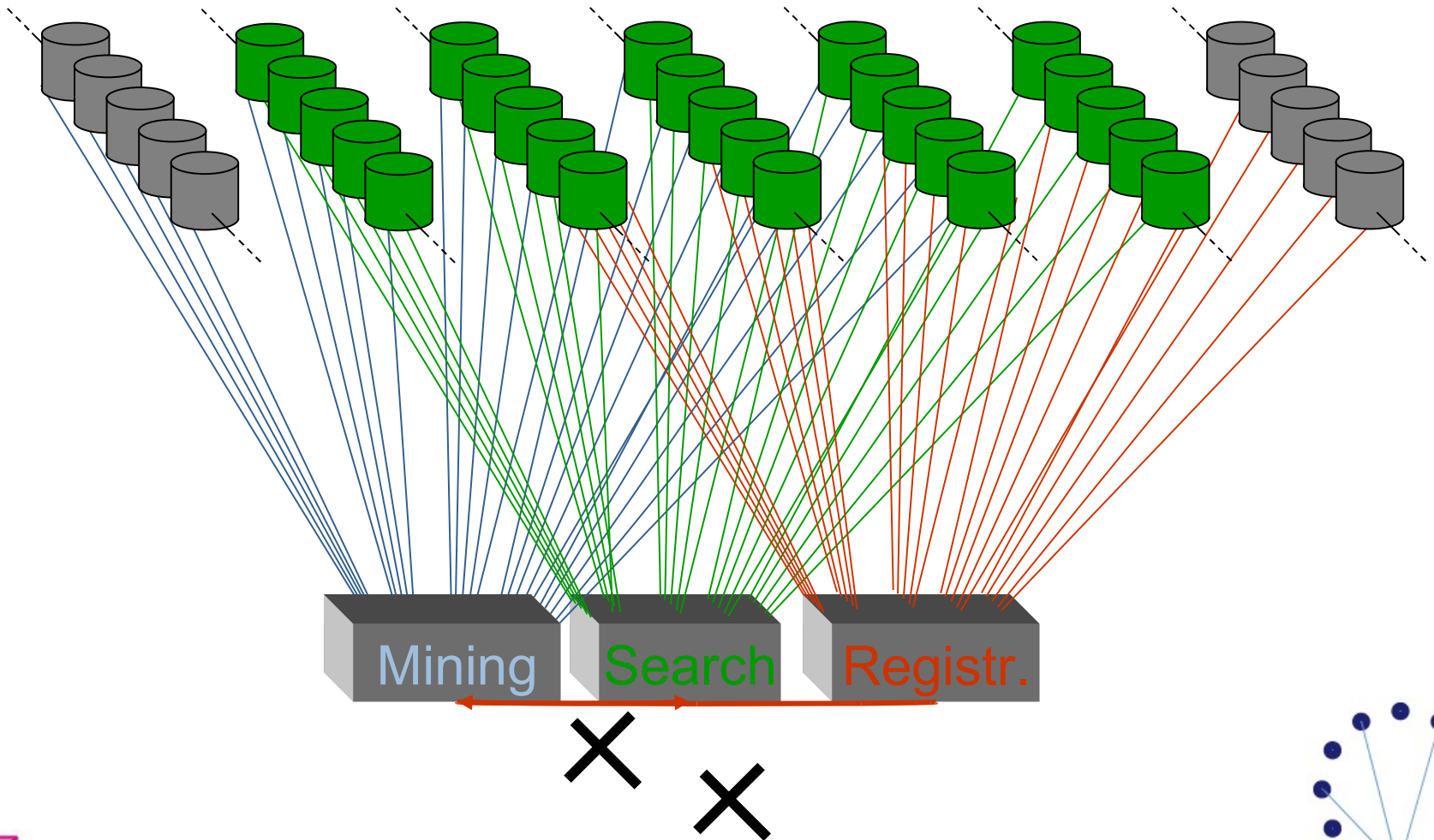
- **Visibility and impact** increased
- *Aumento de la visibilidad y el impacto*
 - Use predicts increased citation
 - *El uso predice un incremento de las citas*
 - Web-Rankings positively influenced
 - *Influencia positiva en los los rankings-web*

E.g. document repositories

Ej. Repositorios de documentos

- **Human** based access largely solved (*El acceso humano ampliamente solucionado*)
 - E.g. BASE with 1000+ sources / 15Mio+ docs.
- **Machine** based access only partly solved (*el acceso por las máquinas sólo parcialmente solucionado*)
- Added value services cannot evolve (*los servicios de valor añadido no pueden evolucionar*)
- Insufficient **data interoperability** (*insuficiente interoperabilidad de los datos*)
 - e.g. mining/ citation parsing: missing full-text links
 - *Ej. Mining/análisis sintáctico de las citas: faltan los enlaces al texto completo*
 - e.g. classification browsing: missing consistency
 - *Ej. Navegación por clasificación: falta consistencia*
- Insufficient **service interoperability** (*insuficiente servicio de interoperabilidad*)
 - Repositories do not „talk internetish“
 - *Los repositorios no hablan „internetish“*

Networking today “networking” hoy



DRIVER Vision

La visión DRIVER

- Provision of a European node in a global network of and for repositories
- *Ofrecer un nodo europeo en una red global de y para repositorios*

for/para

- all types of documents, data and objects,
- *Todo tipo de documentos, data y objetos,*
- in every format,
- *En cualquier formato*
- with participation of all European countries,
- *Con la participación de todos los países europeos*
- with all academic disciplines
- *Con todas las disciplinas académicas*

- Those are big words...
- *Esto son palabras mayores...*

Aspects of repository infrastructure

Aspectos de la infraestructura de repositorios

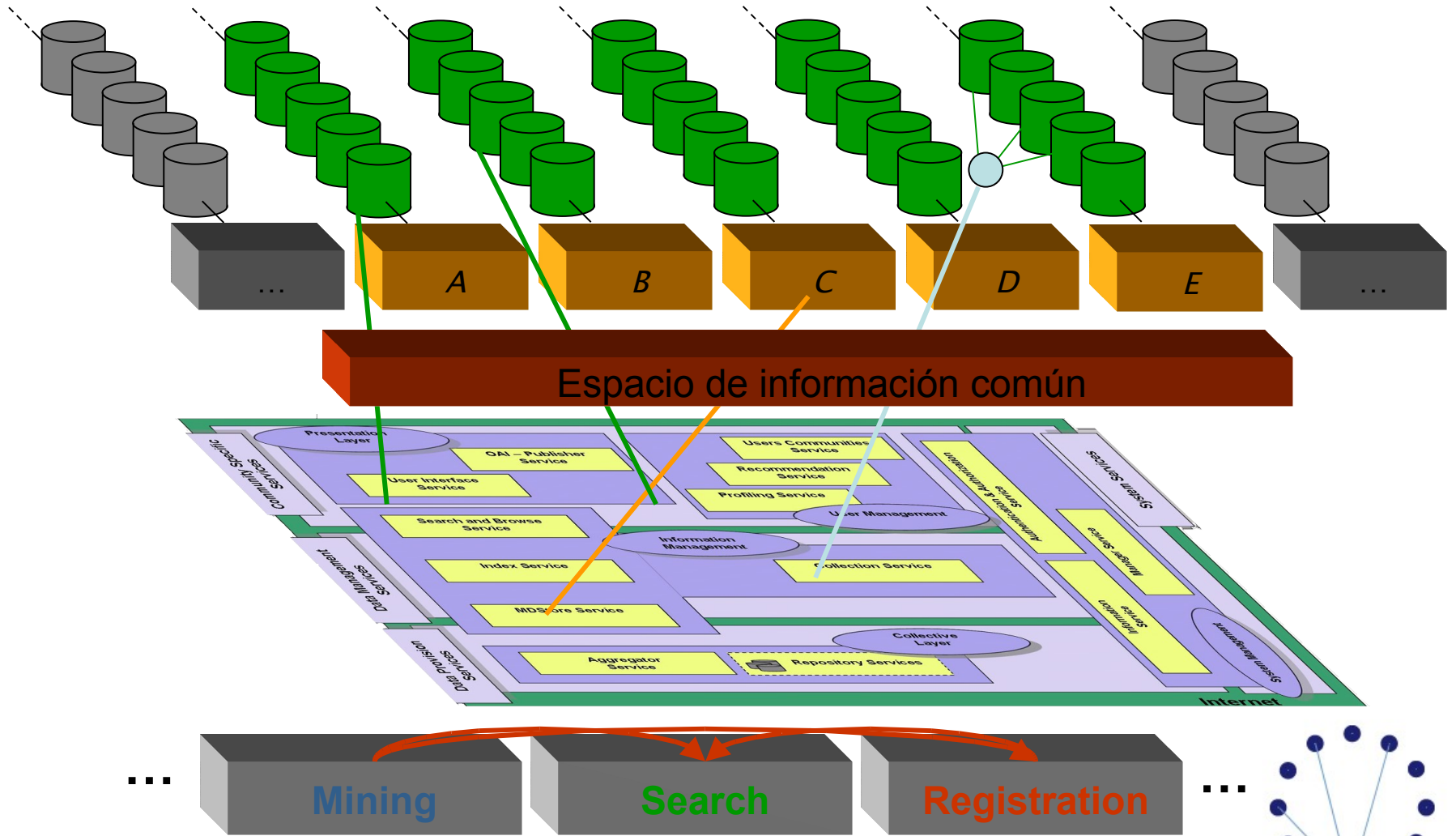
- Organisational Networking
- Organización del „networking“
 - Forum for stakeholders

- Harmonisation of data
- Armonización de los datos
 - Clean & enriched information space
 - Un espacio de información despejado y enriquecido
 - Re-use by added values or data providers, e.g. Europeana
 - Reutilizado por valores añadidos o proveedores de datos, ej. Europeana

- „Orchestration“ of software
- Orquestación del software
 - open, scalable technical architecture (*abierto, arquitectura técnica escalable*)
 - Re-use of existing services (*reutilización de servicios existentes*)
 - Facilitation of interaction between services (*facilitar la interacción entre servicios*)



Networking in DRIVER



DRIVER-1: fase de experimentación

○ 2006-2007

○ Focus on **existing** repositories

○ *Centrado en repositorios existentes*

○ Focus on **institutional** repositories

○ *Centrado en repositorios institucionales*

– Why?/Por qué?

- Great **progress** in the last years
- *Gran progreso en los últimos años*
- Inherent **sustainability** (e.g. libraries)
- *Sostenibilidad inherente (ej. Bibliotecas)*
- Adequate technical **homogeneity** (OAI-PMH)
- *Homogeneidad técnica adecuada*

○ Focus on **text documents / metadata**

○ *Centrado en documentos textuales/metadatos*

○ Focus on specific (test-bed) **countries**

○ *Centrado en países específicos*

DRIVER-II – production & extension

DRIVER II – fase de producción y ampliación

○ 2008-2009

○ Organisation

- Crear una **confederación** de repositorios digitales europeos

○ Data



- Ampliar el **espacio virtual** de información
 - Geographic, disciplinary and data-specific extension (*extensión geográfica, temática y de datos*)

○ Software

- **Production operation and added services**
- *Operar en producción y servicios añadidos*
- Extension for “enhanced publications”
- *Extensión para las “publicaciones complejas”*

What can you do with DRIVER? Qué puedes hacer con DRIVER?

- ... **Supported use cases** (*funciones soportadas*)
 - ... Use the reference D-NET installation (*usar la referencia de la instalación D-NET*)
 - ... Searching repositories (*búsqueda de repositorios*)
 - ... Repository registration (*registro de repositorios*)
 - ...
- ... **Active use cases** (*funciones que se están desarrollando*)
 - ... Aggregation portal
 - ... Aggregation workbench
 - ... Using DRIVER Information Space (*usar el espacio de información DRIVER*)
 - ... Installation of D-NET and own deployment (*instalación de D-NET y un despliegue propio*)
 - ...
- ... **Planned use cases** (*funciones planificadas*)
 - ... Application development (*desarrollo de aplicación*)

Use the reference D-NET installation

- ◉ Implies reliable 24/7 operation of all services
 - Provided by ICM (Warsaw), CNR-ISTI (PISA), Athens University, Bielefeld University Library
- ◉ Target group
 - Everybody, crucial for data and service providers



DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

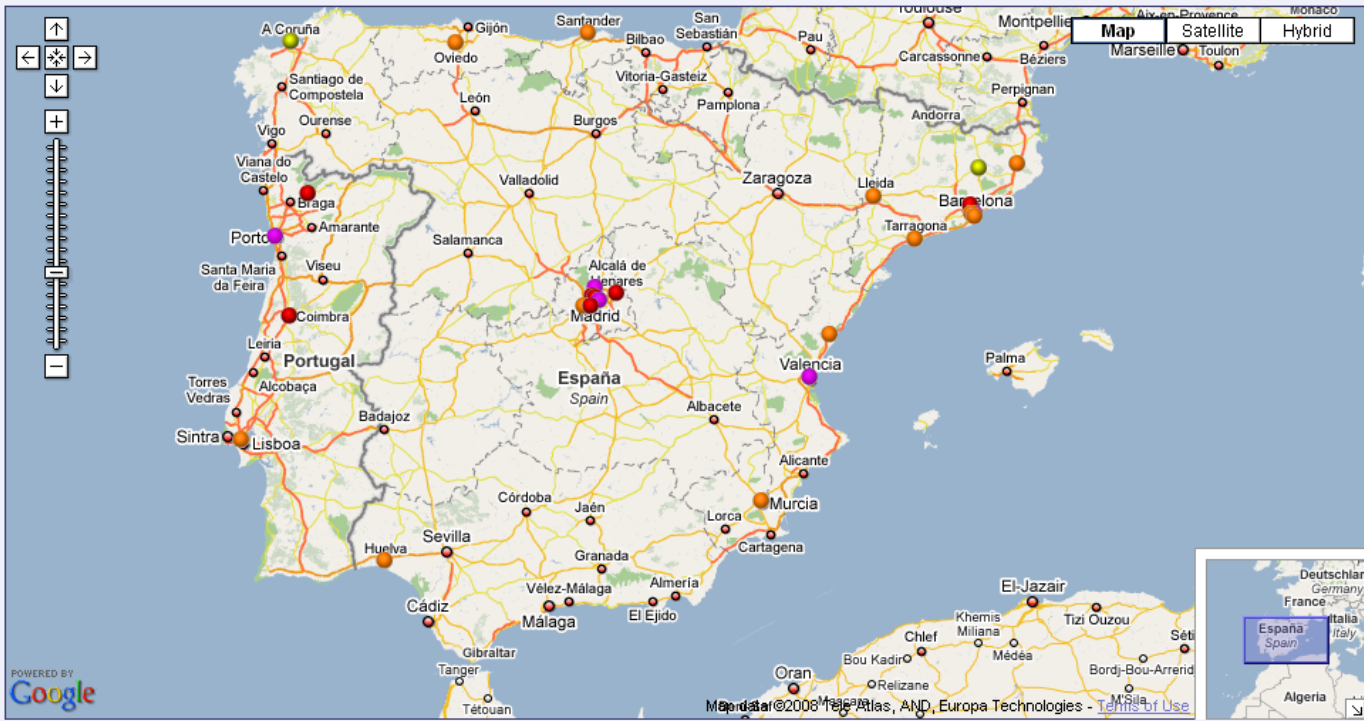


Home **Repositories** Network Collections

Information Space Personalize Collections

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

- CH Bibliotheque Numerique RERO DOC
- ES Biblos-e Archivo Universidad Autonoma de Madrid
- DE BieSON - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)
- DE BiPrints
- UK Birkbeck ePrints
- UK Bristol Repository of Scholarly Eprints (ROSE)
- UK British Library Research Archive
- ES BURJC-DIGITAL Universidad Rey Juan Carlos
- UK Cranfield CERES
- SE DALEA - Hogskolan Dalarnas elektroniska arkiv
- HU Debreceni Egyetem elektronikus Archivumának (DEA)
- DE DESY Publication Database
- ES Digital.CSIC
- DE DIPP NRW
- NL Dissertations of the Universiteit van Amsterdam
- BE Document Server@UHasselt
- HU Doktori disszertációk
- DE Dokumenten- und Publikationsservice
- IE DORAS
- UK DSpace at Cambridge



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What can you do with DRIVER?

○ Supported use cases

... Use the reference D-NET installation

... Searching repositories

... Repository registration

...

○ Active use cases

... Aggregation portal

... Aggregation workbench

... Using DRIVER Information Space

... Installation of D-NET and own deployment

...

○ Planned use cases

... Application development

Searching repositories

○ Target Group

- End-users / Academics

○ Policies

- Free to use, no access control
- Personalization upon registration possible
 - Communities, Customized searches etc.

○ <http://search.driver.research-infrastructures.eu>





Digital Repository Infrastructure Vision for European Research



HOME

Search all repositories



Reset

Search

DRIVER compliant repositories

Limit your search by

- > Document Type
- > Date of publication
- > Document Language
- > Repository
- > Community
- > Collection

Selected limits

hide details

No search limits.

Search History

Browse for documents

- by Author
- by Document type
- by Subject
- by Document Language
- by Repository



DRIVER Communities

Computer Science in the UK
 DINI Repositories and Database
 Research
 Molecular Biologists

See all DRIVER Communities...



Learn about Communities...

DRIVER Collections

- Anthropology
- Biology
- Computer networks
- Computer Science
- DAREnet Repositories
- DART Europe Repositories
- Database Systems and Theory
- DINI Certificated Repositories
- European Countries

See all DRIVER Collections...

Learn about Collections...

Create your own profile

Create your account to receive personalized services. Registered users can filter their searches or receive alerts based on their individual research interests.

Register [here](#).



News & Announcements

Features more than 600,000 Open Access documents from over 110 European repositories in 25 languages.

For repository managers

Is your repository registered with DRIVER? If not, contact us via our helpdesk and we will guide you through the registration process.

For service providers

Develop the repository landscape!

Are you a technical person? Then you may want to have a look at the current DRIVER infrastructure deployment, or take a peek at two test installations of the driver infrastructure for specialized communities: DART and Recolecta.

Visit our official project site to download the latest DRIVER infrastructure software release D-NET v.1.0

If you have any questions or need further information please contact our helpdesk and we will be happy to assist you!

What can you do with DRIVER?

- **Supported use cases**

- ... Use the reference D-NET installation

- ... Searching repositories

- ... Repository registration

- ...

- **Active use cases**

- ... Aggregation portal

- ... Aggregation workbench

- ... Using DRIVER Information Space

- ... Installation of D-NET and own deployment

- ...

- **Planned use cases**

- ... Application development

Repository registration

○ Target Group

- Repository Managers

○ Policies

- Registration

1. Open / through website
2. Recommendation by country correspondent
3. Pro-active inclusion by DRIVER

- DRIVER guidelines / Validation process



What can you do with DRIVER?

○ Supported use cases

- ... Use the reference D-NET installation
- ... Searching repositories
- ... Repository registration
- ...

○ Active use cases

- ... Aggregation portal
- ... Aggregation workbench
- ... Using DRIVER Information Space
- ... Installation of D-NET and own deployment
- ...

○ Planned use cases

- ... Application development

Aggregation portal

○ Target Group

- Community: national, thematic etc.

○ For example, a „simple“ search portal

- Services hosted by DRIVER
- Own, dedicated, information space

○ Procedures

- After negotiation only

○ Examples are RECOLECTA and Belgium



RECOLECTA

Recolector de ciencia abierta

Search

All Fields

Sherpa/Romeo

Archives

- Repositories of Spain
- Univ. Girona: Tesis Doctorals en Xarxa (TDX)
- Universitat Politecnica de Catalunya
- Archivo Digital UPM
- UDCDspace

Title

Author

Description

Language

- (None)
- eng
- fra
- da
- de

Search



Powered by DRIVER

What can you do with DRIVER?

○ Supported use cases

- ... Use the reference D-NET installation
- ... Searching repositories
- ... Repository registration
- ...

○ Active use cases

- ... Aggregation portal
- ... Aggregation workbench
- ... Using DRIVER Information Space
- ... Installation of D-NET and own deployment
- ...

○ Planned use cases

- ... Application development

Aggregation Workbench

○ Target Group

- Community: national, thematic etc.

○ For example, a „simple“ search portal

- Services hosted by DRIVER
- Own, dedicated, aggregation environment

○ Procedures

- After negotiation only

○ Example: DRIVER-Consortium



DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Repositories Network Collections

Welcome



Welcome to DRIVER



[Repository map](#)



[Network map](#)

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Original design by [Driver team](#) [W3C XHTML](#) [W3C CSS](#)

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Repositories Network Collections

Show Map



Number of records

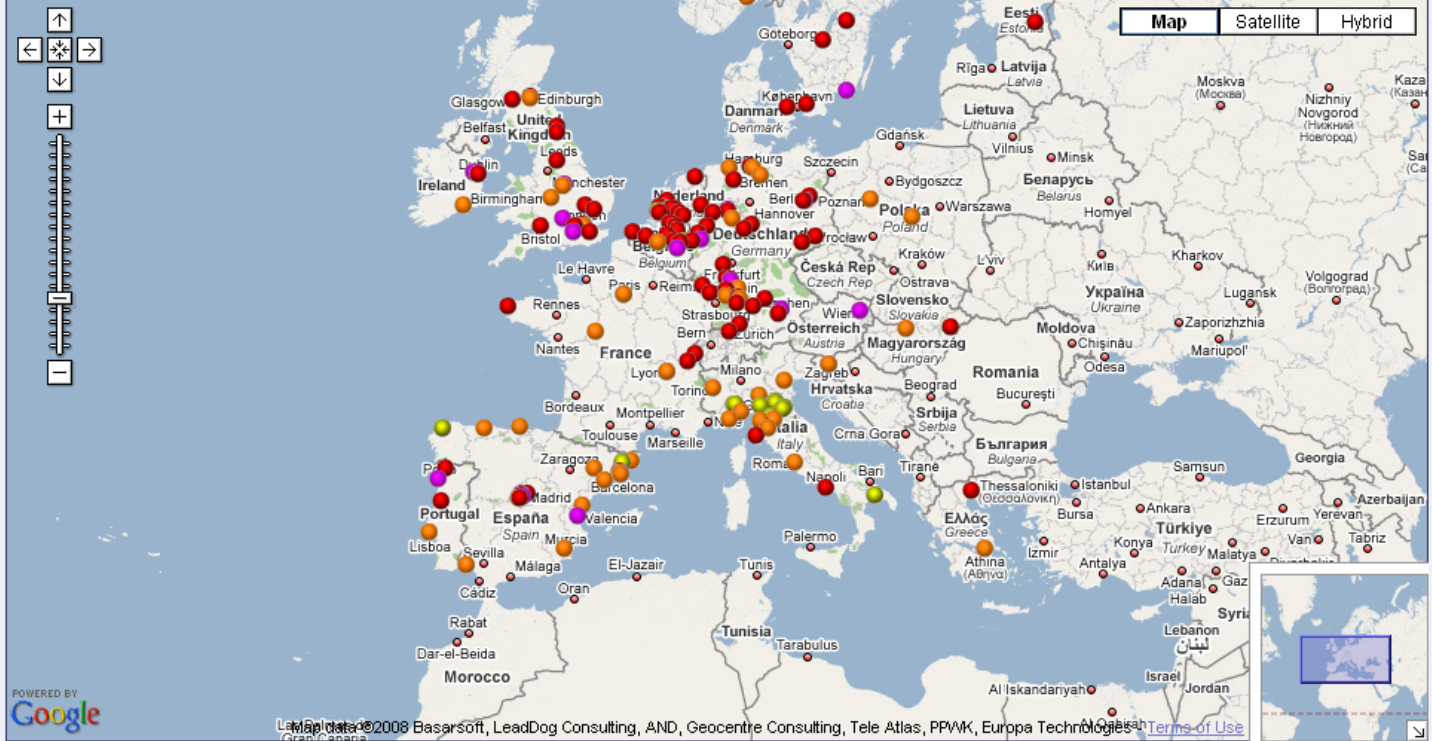
< 50

50 - 500

500 - 1000

> 1000

- Repositories
- IT Alma Mater Digital Library
- IT AperTo
- DE ArchiMED - Elektronische Publikationen der Universität Mainz
- FR Archimer, Archive Institutionnelle de l'Ifremer
- IT Archivio Eprints Universita di Firenze
- ES Archivo Digital UPM
- ES Arias Montano: Repositorio Institucional de la Universidad de Huelva
- GR Aristotle University of Thessaloniki
- IE ARROW@DIT
- DE ART-Dok Publikationsplattform Kunstgeschichte
- DE ask23 repository (lkw, hfbk hamburg, germany)
- NL AUP publications
- CH Bibliotheque Numerique RERO DOC
- ES Biblos-e Archivo Universidad Autonoma de Madrid
- DE BieSON - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)
- DE BiPrints
- UK Birkbeck ePrints



Information Service - User Interface - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

https://admin1.driver.research-infrastructures.eu/IS/RepositoryMap


Kostenlose Hotmail Links anpassen Windows Media Windows LEO Deutsch-Englisch...

Aktuelle Nachricht... Information ... Universitaetsbiblio... UB Bielefeld - OAI ... Suchmaschine BAS... Arizona-Sonora D... Repository maps

Your location: Administration Interface > Repositories > Show Map Version dnet-1.0.4-rc1 r6555 Welcome admin Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

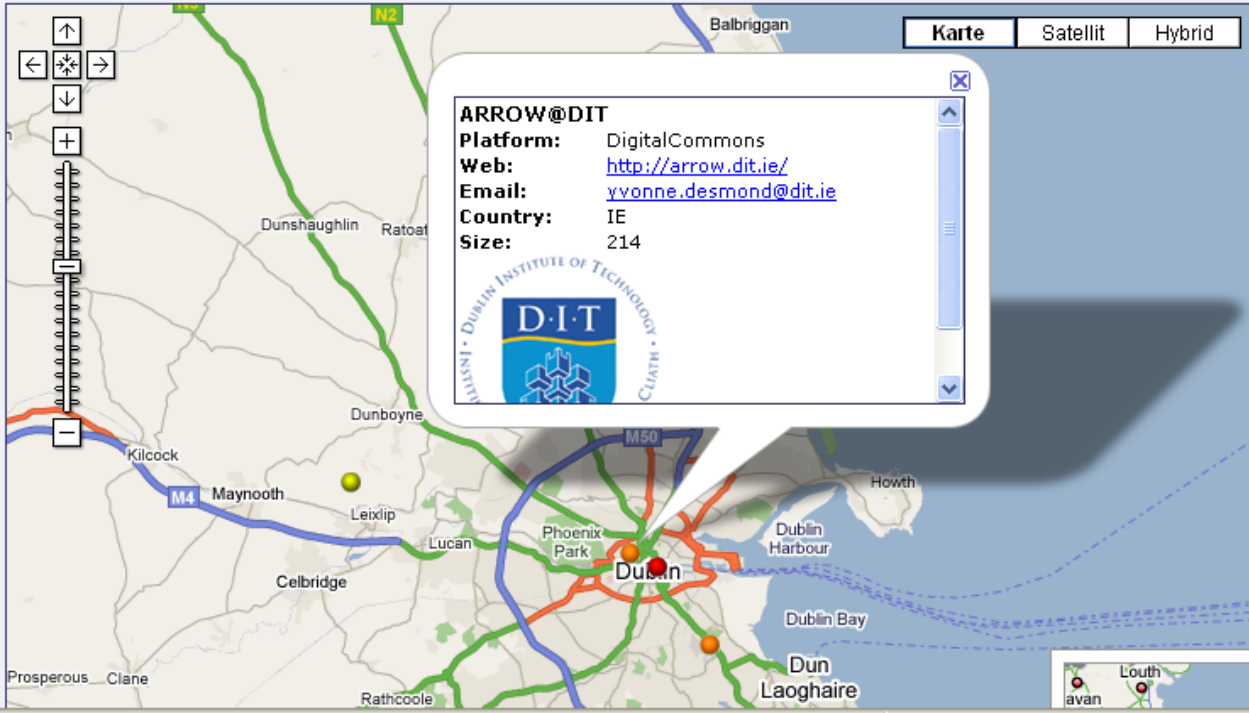
Home Services **Repositories** Network Data Structures Collections Schemas Aggregators

Show Map Active Inactive Add DHN 

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

Repositories

- IT Alma Mater Digital Library
- IT AperTo
- FR Archiver, Archive Institutionnelle de l'Ifremer
- IT Archivio Eprints Universita di Firenze
- ES Archivo Digital UPM
- GR Aristotle University of Thessaloniki
- IE **ARROW@DIT**
- DE ART-Dok Publikationsplattform Kunstgeschichte
- DE ask23 repository (lkw, hfbk hamburg, germany)
- NL AUP publications
- CH Bibliotheque Numerique RERO DOC
- ES Biblos-e Archivo Universidad Autonoma de Madrid
- DE BieSON - Bielefelder Server fuer



ARROW@DIT


Platform: DigitalCommons

Web: <http://arrow.dit.ie/>

Email: yvonne.desmond@dit.ie

Country: IE

Size: 214



Fertig admin1.driver.research-infrastructures.eu

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Services Repositories Network Data Structures Collections Schemas Aggregators

Show Map Add Repository List Repositories



DRIVER Repository Management

	Official name	Size	Country	Status	Aggregation	
Filter: ALL						
1	ARROW@DIT	214	IE	enabled disable	verify / aggregator	delete
2	ART-Dok Publikationsplattform Kunstgeschichte	511	DE	enabled disable	verify / aggregator	delete
3	AUP publications	64	NL	enabled disable	verify / aggregator	delete
4	Alma Mater Digital Library	121	IT	enabled disable	verify / aggregator	delete
5	AperTo	220	IT	enabled disable	verify / aggregator	delete
6	Archimer, Archive Institutionnelle de l'Ifremer	3678	FR	enabled disable	verify / aggregator	delete
7	Archivio Eprints Universita di Firenze	200	IT	enabled disable	verify / aggregator	delete
				enabled	verifu /	

What can you do with DRIVER?

○ Supported use cases

- ... Use the reference D-NET installation
- ... Searching repositories
- ... Repository registration
- ...

○ Active use cases

- ... Aggregation portal
- ... Aggregation workbench
- ... Using DRIVER Information Space
- ... Installation of D-NET and own deployment
- ...

○ Planned use cases

- ... Application development

Using DRIVER Information Space

○ Target Group

- Service Providers / Aggregators

○ Using the OAI-Interface

- Offers normalized DRIVER format
- Metadata – not Full-Text, Includes Provenance

○ Procedures

- Open but not specifically supported

VBB Verkehrsverbund Berlin-Brandenburg
Alles ist erreichbar. Kontakt | Presse | Technikinfo
Suche

Startseite Fahrpläne Fahrkarten Freizeit & Touristik Über den VBB

VBB-Fahrinfo
Routeninfo
von
nach
jetzt später öfter
oder:
Haltestelleninfo
Start
oder:
Linieninfo
Start

Verbindungen öfter fahren auf dem Handy speichern

Ihre Verbindungen
von: Berlin Friedrichstr. Ihr Start- oder Datum: Fr, 22.08.08
nach: Dahlem-Dorf (U) Zeitpunkt ist anders? Zeit: 13:46 (Abfahrt)

«früher | später» «Erste Fahrt | Letzte Fahrt»

Details	Start/Ziel	Datum	Zeit	Dauer	Verkehrsmittel
1	S+U Friedrichstr. BfH (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:42 an 14:15	0:33	UU
2	S+U Friedrichstr. BfH (Berlin) U Dahlem-Dorf (Berlin)	22.08.08	ab 13:43 an 14:15	0:32	SUU



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Installation and deployment of D-NET

○ Target Group

- Larger infrastructure operators

○ Provides a service framework

- Much more than a single service
- Considerable investment costs
- Considerable mid-term benefits

○ Procedures

- Download (Apache Licence)
- DRIVER support probably required





Digital Repository Infrastructure Vision for European Research



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D-NET v1.0

Category: D-NET v1.0

Number of Subcategories: 4

Page: 1 of 1

<< >>



D-NET v1.0

DRIVER Software Infrastructure Release. You may download the latest **source code** and **documentation** for the DRIVER services.

The code is currently divided into four sections, associated with the four DRIVER software technical partners and the services developed by each one: [CNR-ISTI](#) , [ICM](#) , [NKUA](#) and [UNIBI](#) .

For technical support please contact us at [helpdesk at driver-support.eu](mailto:helpdesk@driver-support.eu)



Core, data layer and other helper Services

Source code, installation instructions and detailed documentation for the following services:

1. Information Service (core)
2. Manager Service (core)
3. OAI-Publisher (data)
4. Collection (data)
5. Text Engine (data)
6. Result Set (helper)
7. Hosting Node Manager (helper)

Download Information

Top downloads

Source Code - Functionality Services 1.0	742
Core Services Documentation 1.0	94
Source Code - Core Services 1.0	65
Cooperation Schema	61
Functionality Services Documentation 1.0	45

Latest additions

AAS Documentation 1.0	2008-06-12
Core Services Documentation 1.0	2008-06-12
Data Layer Services Documentation 1.0	2008-06-12
Functionality Services Documentation 1.0	2008-06-12
MD5 checksum	2008-06-12

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- ... Application development

Application development

○ Target Group

- Technical Developers

○ Re-use of Services

- applications in one web-runtime-environment
- Re-using data and indexing
- E.g. citation analysis, usage statistics

○ Procedures

- After negotiation only



Spain: Steps towards DRIVER

España: pasos hacia DRIVER

- Take over national aggregation (*Encargarse de su agregación nacional*)
 - Compliance with DRIVER-Guidelines (*conformidad con las directrices DRIVER*)
 - Building a DRIVER-set for Spain (*crear un set-DRIVER para España*)
 - E.g. only records with links to full-texts (*ej. Sólo registros con enlaces a los textos completos*)
 - Enabling added value services, e.g. Mining (*posibilitar servicios de valor añadido, por ejemplo „mining“*)
 - Enabling world-wide machine-based re-use (*posibilitar la reutilización basada en máquinas en todo el mundo*)
 - „Aggregation Workbench“ will be provided (*se proporcionará „aggregation workbench“*)
 - National portal will be provided (*se proporcionará un portal nacional*)
 - Full compatibility with DRIVER services (*total compatibilidad con los servicios DRIVER*)

- Future: Data / Enhanced Publications / OAI/ORE (*Futuro: Data/Publicaciones complejas/OAI-ORE*)
- Future: Own node / Build own applications (*Futuro: un nodo propio/crear sus propias aplicaciones*)

Conclusion

- DRIVER is building a European node for a global data infrastructure
- *DRIVER está construyendo un nodo europeo para una infraestructura de datos global*
 - Starting from publications (*empezando por las publicaciones*)
 - Going to data (over enhances publications) (*yendo hacia los data – sobre las publicaciones complejas*)
 - 24/7 operations of „cloud“-ready services in place (?)
- National participation will open opportunities
- *La participación nacional abrirá oportunidades*
 - Enabling machine-based access to data (*posibilitando el acceso a los datos por las máquinas*)
 - Entry point to international service sharing (*punto de entrada a compartir un servicio internacional*)
 - National view with global impact (*una perspectiva nacional con un impacto global*)

Thanks
Gracias

