


Rome, 29th-30th October 2007



DRIVER Infrastructure
The Demo

driver Digital Repository Infrastructure Vision for European Research

“European Information Space: Infrastructures, Services, and Applications Workshop”

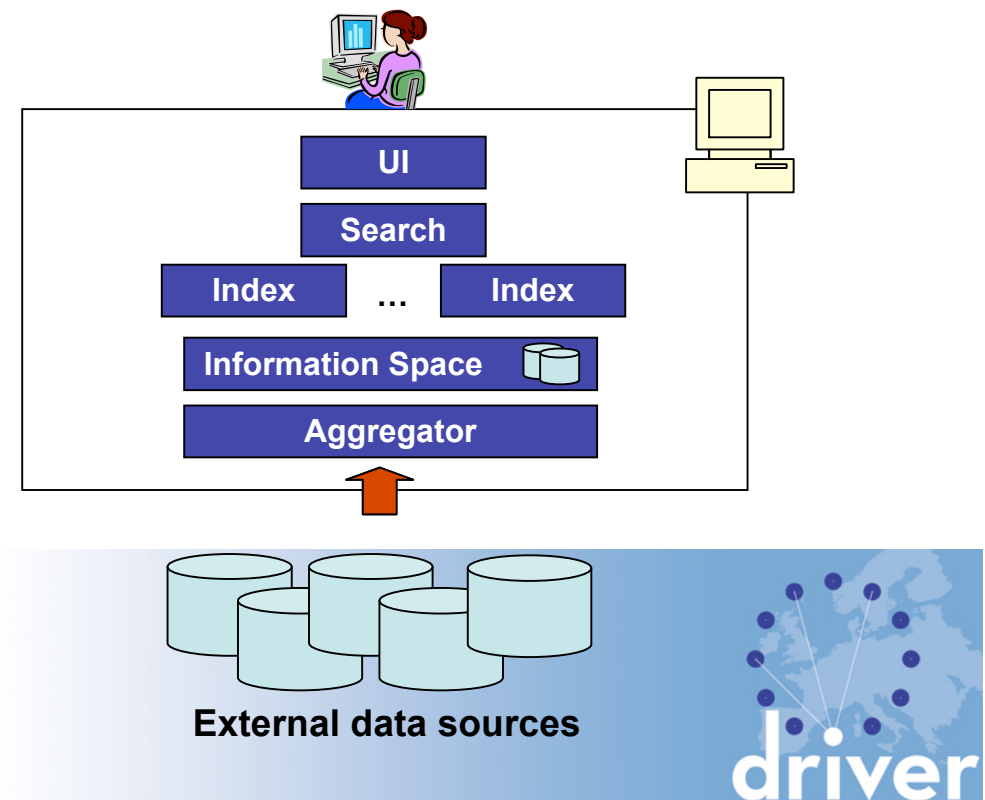
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DRIVER Infrastructure

- Targets VREs addressing “data integration”
 - Examples in Europe: DARE (NL), BASE (DE), PUMA (IT), DART Europe, etc.
- In order to
 - Overcome high maintenance costs, low degrees of scalability, and data sharing



DRIVER Resource KITs

- DRIVER middleware currently outsources two application paradigms
 - Data aggregation KIT
 - End-user functionality KIT
- Open to other application paradigms



DRIVER Data Aggregation KIT

- Harvesting tools
 - Easy “harvesting” of heterogeneous external data resources
- Aggregation tools
 - Data manipulation: e.g. enrichment, modification, transformations
 - Definition of *Information Spaces*: new data, of higher quality
- Data storage and access outsourcing
 - Automatic management of data storage and data access (sharing, replication, indexing, etc)



DRIVER End-User functionality KIT

- User Interfaces
 - Automatic adaptation to different Information Spaces features
- User profiling tools
 - Acquiring and exploiting user interest info
- User Community management
 - Enabling and easing the process of data selection activities
- User Recommendation mechanisms

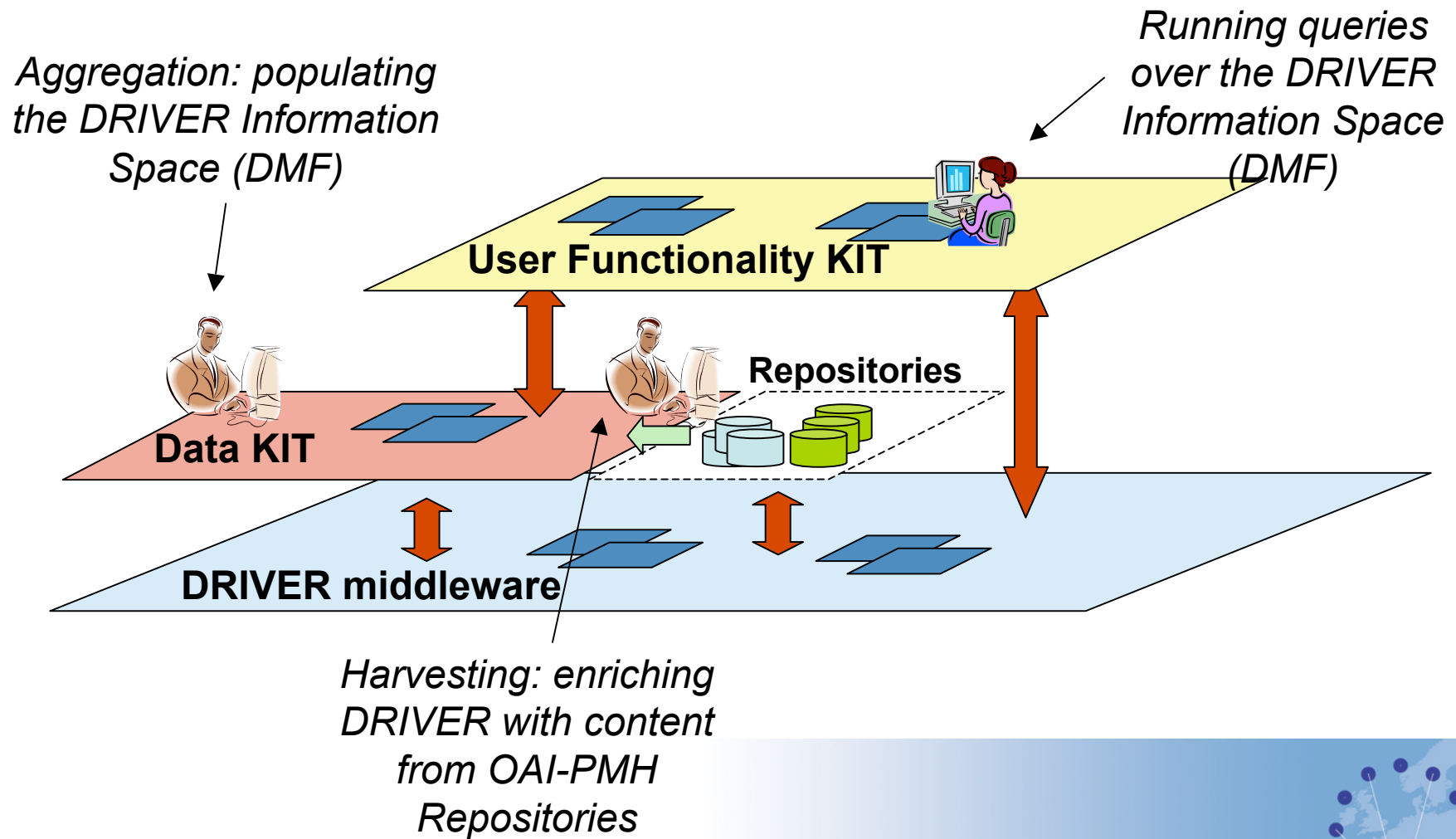


DRIVER European VRE

- *European VRE for Open Access publications*
 - Harvests content from European Repositories
 - Now: 51 Repositories for a total of 250.000 Open Access documents
 - Soon: up to 73 Reps by the end of the year
 - Maintains one European Information Space
 - *DRIVER Metadata Format (DMF)*
- Other VREs are to join DRIVER in the near future
 - Adding new content
 - Sharing existing content



DRIVER infrastructure: the DEMO



DEMO links

- <http://search1.driver-repository.eu/webInterface/>
- <http://driver10.isti.cnr.it/>
- <http://129.70.12.42:8007/cgi-bin/ASmanager.pl>

- Open Alpha release on DRIVER Information Space, final release by the end of the year
- Operates over the DRIVER Information Space and DMF documents
- It includes many functionalities, such as user registration and profiling, collections and communities, others will be introduced soon, such as browsing or user private collections
- From here we can search the whole information Space or focus on a subset by using collections
- For example:
 - we run the query: “american election”
 - Select the second document
 - Show the DMF: data cleaning, repository info, country
 - Enables definition of collections not only content-based but location-based
 - Show the document splash page
 - Get back to the search page and leave it there (it will be used for the same query)
- Move to the administrative interface, from which we can manage all infrastructure resources
- For example: monitoring of Nodes/Services and Repositories, thus external resources
 - New instances of the services can be added or removed and the infrastructure will keep the VRE's operative by exploiting the resources currently available
- We can also register a new Repository
 - New repositories are registered and put in “pending” mode, waiting for validation from an administrator
 - The validation of a repository to be harvested requires the allocation of storage space, of indexes, and the notification to the administrators that will have to configure the harvesting operation
- For example we can validate the Repository British Library as we know it contains documents related with “american election” to see the immediate effect of the harvesting
- Open Aggregator in other Browser TAB
- These effects can be tracked down through the list of data structures created by the infrastructure
- Run again in the first tab the same query



Home page



The screenshot shows the DRIVER website home page. The header includes the DRIVER logo and the text "DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH". Navigation links for HOME, LOOKFOR, and INFORMATION are present. The main content area is divided into three columns. The left column contains a sidebar with links for DRIVER Network, Community News, and Events. The middle column features a welcome message, a testing phase notice, a list of features and characteristics, and a search bar. The right column lists DRIVER Announcements and DRIVER Communities.

driver DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

HOME LOOKFOR INFORMATION

Home

DRIVER Network

- Joining DRIVER
- Guidelines
- Partners
- Country Pages
- 'Mentor'
- DRIVER Wiki

Community News

- Petition for guaranteed public access to publicly-funded research results
- Spanish Repositories to Receive Funding
- Irish Universities Institutional Repositories Project
- More...

Events

- 11th ECDL conference
- EUA Autumn Conference
- More...

Welcome to the DRIVER website, portal to the European research information.

! Please note that the portal is currently at its testing phase. It may therefore run relatively slow. DRIVER endeavours to rectify this in due course.

Use this site to access various DRIVER products and services, such as the [DRIVER Support site](#). Here you will find information about the project itself and its relevance to researchers, institutional and repository managers, funding agencies and others, as well as information about building repositories and activities in European countries. The DRIVER website also give you access to the [DRIVER Guidelines](#) and the [DRIVER wiki](#). The DRIVER portal offers a number of features and characteristics that are ready to use and others that will become available soon. More specifically:

Features & characteristics

- > Access to public documents in a consistent and harmonized way from over 70 repositories ([click here to get a full list](#))
- > [Advanced searching](#) capabilities
- > Use of [Collections](#) and [Communities](#) allowing virtual views on the data
- > [Personalized services](#) that allow registered users to systematically filter their searches based on their individual research interests
- > Dynamic growth of the [DRIVER content](#) by real-time repository data harvesting
- > [Distributed and scalable](#) infrastructure supporting
 - >> dynamic deployment of DRIVER nodes and services
 - >> integration of external services requiring minimal effort
 - >> provision of existing DRIVER services to other service providers

Coming soon

- > Browsing and navigating capabilities
- > User and community related recommendation and alerting services
- > Repository managers' tools for easy registration and data quality feedback

Search in Repositories

[Advanced Search](#)

DRIVER Announcements



- >> We have built a very limited number of collections and communities for use. Please let us know whether you can create additional ones for your research needs.
- >> The DRIVER (pre)-alpha release is here! Feel free to look around. Your feedback will be very much appreciated.

DRIVER Communities

- Anthropologists**
Researchers interested in Anthropology, the science of humankind, study the facets of society and culture.
- British Historians**
Researchers on British history, culture and society.
- Computer Scientists**
Research community with general interests in computer science and related issues.



Query results



DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

HOME LOOKFOR INFORMATION

Search Results (8 documents)

Pages 1 of 1 << < 1 > >>

THE RECENT US ELECTION AS AN INFORMATION SYSTEM CASE STUDY

CREATOR(S): Heng, Michael S.H.

DESCRIPTION: This paper adopts an information systems perspective to study the recent American presidential election. The election may be seen as a decision making process to choose the leader to represent the wishes ...

REPOSITORY: DSpace at Vrije Universiteit Amsterdam
Repository Info | Repository's web site

LANGUAGE(S): English

DOCUMENT: View this document ...

BRINGING THE MEMBERS BACK IN? DEMOCRATIZING CANDIDATE SELECTION IN BRITAIN AND SPAIN

CREATOR(S): Hopkin, Jonathan

DESCRIPTION: Primary elections and membership ballots are becoming more common as a means of selecting candidates in European parties. This article assesses the likely implications of these changes for party cohes ...

REPOSITORY: DSpace at the London School of Economics Library
Repository Info | Repository's web site


LANGUAGE(S): English

DOCUMENT: View this document ...

DEMOKRATIE UND PACTA SUNT SERVANDA

CREATOR(S): Fulda, Christian B.

DESCRIPTION: International law provides for a democratic principle. It is based both on treaty law



My Account

SUPPORT

Start new Search

MODIFY YOUR SEARCH **REFINE YOUR SEARCH**

All Fields all american election +

More Preferences

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

Reset Search

SELECTED FIELDS [hide details](#)

SEARCH HISTORY

- (american AND election)
- (american AND election)
- (american AND election)
- (american AND election)

DRIVER Metadata Format

Document Information

THE RECENT US ELECTION AS AN INFORMATION SYSTEM CASE STUDY

CREATOR(S): Heng, Michael S.H. ;

DESCRIPTION: This paper adopts an information systems perspective to study the recent American presidential election. The election may be seen as a decision making process to choose the leader to represent the wishes and interests of the people. The system supporting the process is an information system, with information technology, inputs, outputs, users, human operators, procedures, assumptions, and goals. The information system is supposed to serve as an objective instrument to support the decision making process of political election. But its functioning is deeply embedded in the political life, with its history, institutions, procedures, norms and strengths and flaws. The output of the system is thus a good enough answer, rather than the most accurate answer. All these aspects feature prominently in the recent election. In addition, the impasse in Florida reveals several problems; the more important ones are (1) the controversy surrounding voting cards that not clearly punched (2) the use of outdated technology, (3) the tension between democratic ideal and legal and political expediency.

PUBLISHER(S): Vrije Universiteit Amsterdam

CONTRIBUTORS(S): -

REPOSITORY

NAME: DSpace at Vrije Universiteit Amsterdam

LINKS: [Repository Info](#) | [Repository's web site](#)

COUNTRY: NL

INSTITUTION: -

SUBJECT(S): history; L86; political expediency; truth; meaning; American presidential election.; interpretation; socially embedded; procedures;

TYPE(S): Research paper

LANGUAGE(S): English

DOC LINK: [View this document ...](#)

MODEL: OAI;

METADATA FORMATS: oai_dc;

PUBLICATION DATES(S): 2004-01-05

COLLECTION DATES(S): 2007-10-07T08:09:19Z



Virtual collections



The screenshot shows the DRIVER website interface. At the top left is the DRIVER logo with the tagline 'DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH'. To the right is the 'e-infrastructure' logo and links for 'My Account' and 'SUPPORT'. A navigation bar contains 'HOME', 'LOOKFOR', and 'INFORMATION'. Below this is a 'Collections' sidebar with a list of categories: German Repositories, Computer Science, French Repositories, Law, Medical, Pharmacy, Italian Repositories, History, Biology, Social and Economic Sciences, Anthropology, Ethnology, and European Thesis and Dissertations. The main content area features a search box labeled 'SEARCH WITHIN THE COLLECTION' and a 'Search' button. Below the search box is a header for 'GERMAN REPOSITORIES' with a link to 'View All Collection Documents...'. The page contains several metadata fields: 'Description' (with a 'Write a content' prompt), 'Subject' (German Repositories), 'Parent Collection' (indicated by a dash), 'Number of Documents' (0), and 'Last update Date' (Thu Sep 27 00:00:00 EEST 2007). At the bottom right, there is a 'Querv - Criteria' section.

Administrative interface

Your location: Administration Interface > Home > Welcome

Welcome **admin** | Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

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

Data structures List

driver

Welcome to DRIVER

[Repository map](#)

[Network map](#)

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Original design by [Driver team](#)  

Repository management

Your location: Administration Interface > Repositories > Show Map

Welcome admin Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Services Repositories Network Data Structures Collections Schemas Aggregators

Show Map Add Repository List Repositories

driver

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

Map Satellite Hybrid

Repositories

- FR Archimer, Archive Institutionnelle de l'Ifremer
- DE ask23 repository (lkw, hfbk hamburg, germany)
- DE BieSON - 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 Archivumának (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
- NL DSpace at University Leiden
- NL DSpace at Utrecht University
- NL DSpace at Vrije Universiteit Amsterdam

The map displays repository locations across Europe, with colored dots representing the number of records. The legend indicates: green for < 50, orange for 50 - 500, purple for 500 - 1000, and red for > 1000. Major cities and countries are labeled, including the UK, France, Germany, Italy, Spain, and others. The map also features navigation controls like zoom in/out and a map style selector (Map, Satellite, Hybrid).



Node and Service management

Your location: Administration Interface > Network > Show Map

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

Legend Host Node

Map Satellite Hybrid

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)
 - 8006 (MDStore)



Repository registration and validation

Your location: Administration Interface > Repositories > List Repositories

Welcome **admin** Logout

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

90 elements

	Official name	Size	Country	Status	
Filter: ALL					
1	Archimer, Archive Institutionnelle de l'Ifremer	2159	FR	valid invalidate	delete
2	BieSON - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)	883	DE	valid invalidate	delete
3	Bristol Repository of Scholarly Eprints (ROSE)	852	UK	valid invalidate	delete
4	British Library Research Archive	41	UK	valid invalidate	delete
5	DSpace at Open Universiteit Nederland	112	NL	valid invalidate	delete
6	DSpace at Radboud Univ. Nijmegen	6913	NL	valid invalidate	delete
7	DSpace at UGent	2938	BE	valid invalidate	delete
8	DSpace at University of Leiden	2124	NL	valid	delete



