DARIAH-EU

Digital Research Infrastructure
for the Arts and Humanities

Distributed access to partners' contributions

Sophie David & Nicolas Larrousse (Huma-Num)
In collaboration with Shadia Kilouchi (Huma-Num), Jean-Luc Minel (MoDyCo, Univ. Paris Ouest-La Défense & Huma-Num), Stéphane Pouyllau (Huma-Num) and Laurent Capelli (CCSD)

5-6 September 2013

Huma-Num

Objectives

“Improve research opportunities and outcomes through linking distributed digital source materials of many kinds”

http://www.dariah.eu/

- **For contributors**
  To give visibility to their contributions
- **For researchers**
  To give them tools to find relevant information

Principles

- **To deal with decentralized data**
  - Each contributor is responsible for the description of his contribution
  - Each country is responsible for collecting and displaying the contributions
- **To use standard tools**
  - To use languages of the Semantic Web (RDF, SPARQL)
- **To exploit Linked Open Data possibilities**
  - To use existing data from other repositories
- **Low cost and time investment**

What have we requested?
What have we done?

- Countries write 3 contributions (in English). Each contribution is on anHTML page, annotated with RDFa.

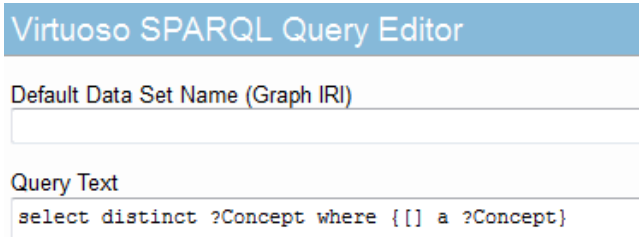
***

1) Storage of the pages: http://sandbox-ist.tge-adonis.fr/dariah-eu/contrib/

2) Crawling and harvesting: Isidore

3) Storage of the harvested data: Isidore triplestore. Anyone can search the Isidore triplestore

Isidore
Project ownership: Huma-Num
& Project management: CCSD



15 Contributions

4 contributions from France

Theses.fr - IdRef - Cléo Platforms - Long-term preservation

2 contributions from Ireland

Digital curation - Teaching and training

3 contributions from Italy

Cultura Italia - Internet Culturale Portal - OPAC SBN

3 contributions from The Netherlands

Data Seal of Approval - EASY - NARCIS

1 contribution from Slovenia

DocX to TEI

2 contributions from the Affiliated Projects

EHRI and CENDARI

Examples of RDFa Annotations

Title

<meta property="dc:title" content="Teaching and Training in Digital Humanities" xml:lang="en" />

Institution(s)/Organisation(s)

<meta property="dc:publisher" content="Slovenska infrastruktura za digitalno humanistiko" xml:lang="sl" />

Name of the scientific person in charge

<meta property="dc:creator" content="Rosa Caffo" />

<meta rel="dc:creator" href="http://viaf.org/viaf/63873608" /> (i.e. Susan Schreibman)

Type(s) of offer

<meta property="dc:subject" content= "Type of offer: Access" />

So what can we do with this material?

Two main possibilities

Retrieve Data

Web interface

Web programming

Enrich Data with other Triple Stores

Lexvo.org

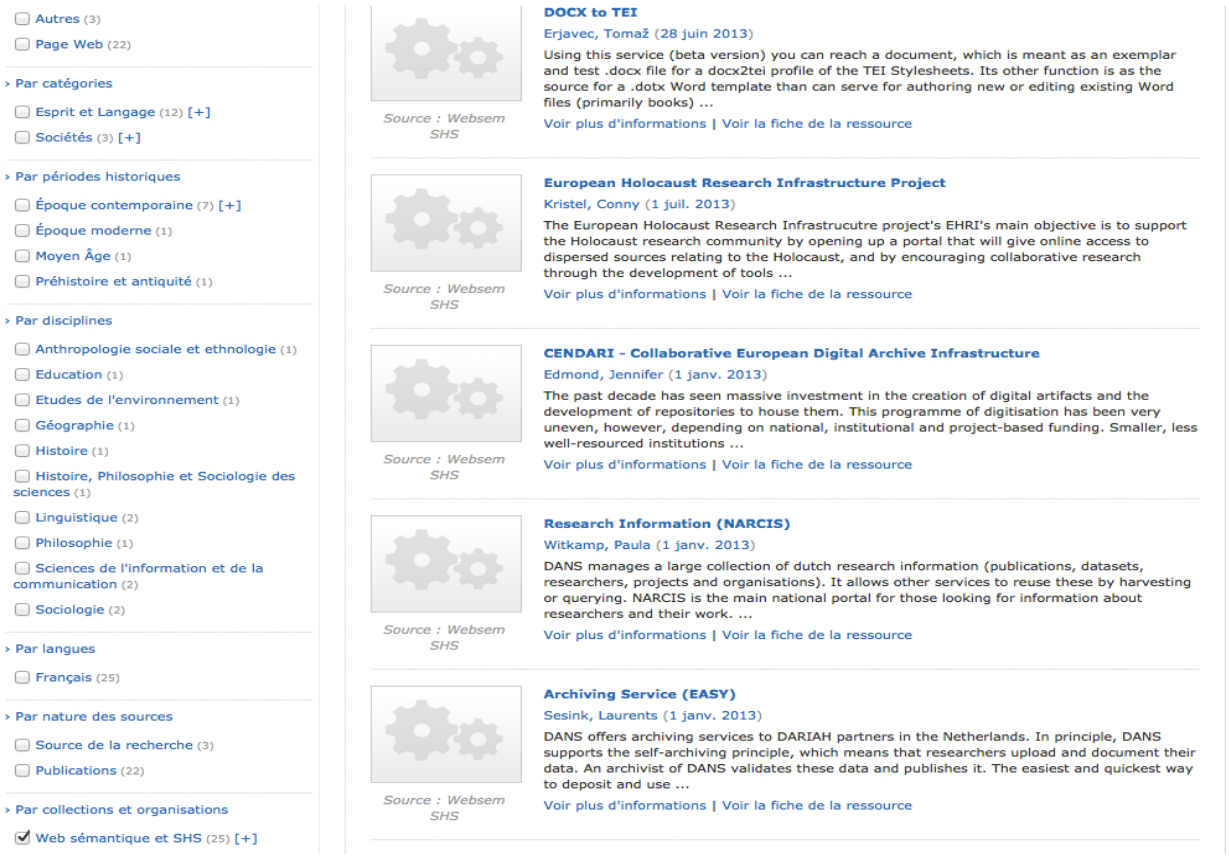
DBpedia

VIAF
Fichier d'autorité international virtuel

GeoNames

Access via Web interface (1)

Easy “human” access to retrieve data



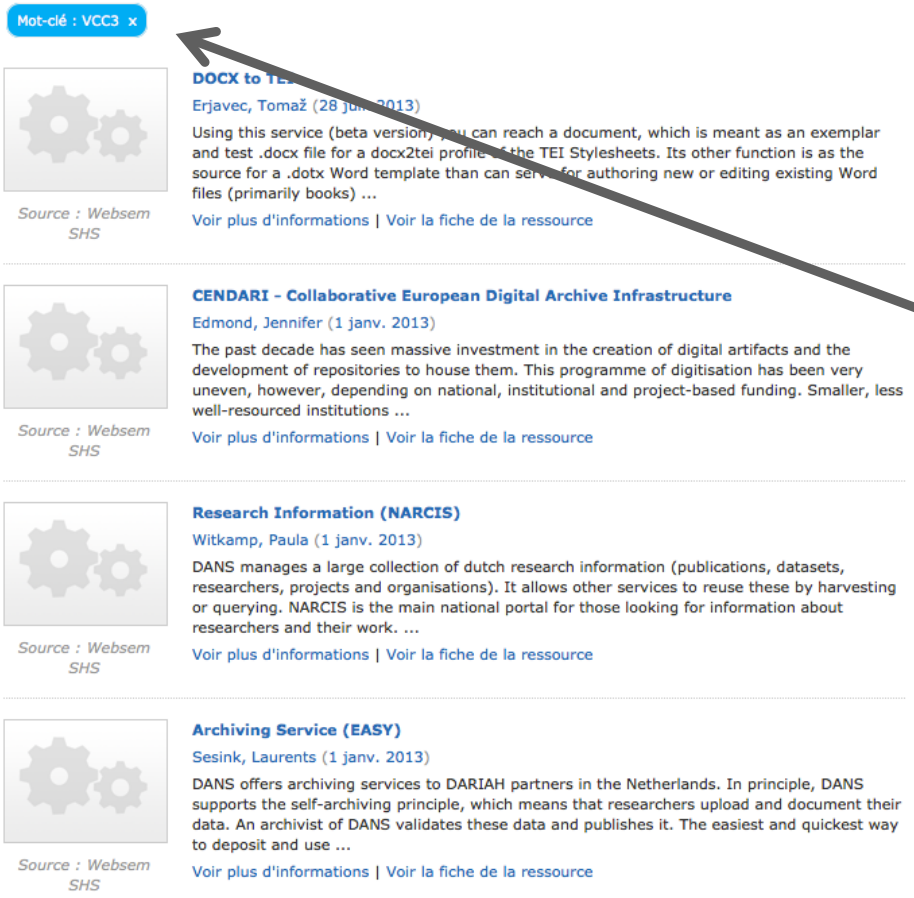
List of contributions

Source DARIAH

isidore

Access via Web interface (2)

Easy “human” access to retrieve data



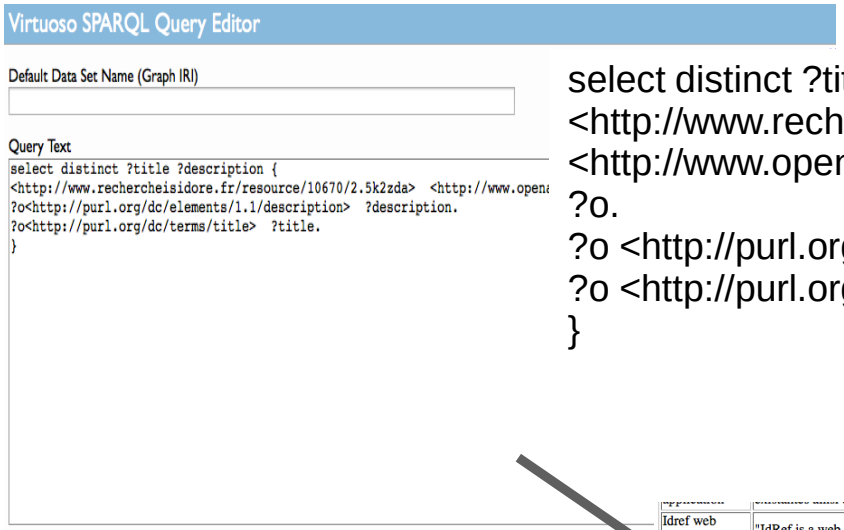
Keyword

VCC3

isidore

Access via a SPARQL End Point

The “Rough” - but extensible - way

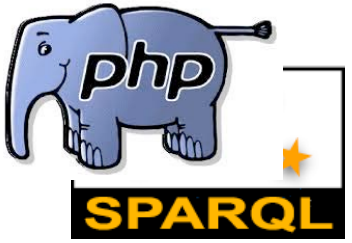



```
select distinct ?title ?description {
<http://www.rechercheisidore.fr/resource/10670/2.5k2zda>
<http://www.openarchives.org/ore/terms/aggregates>
?o.
?o <http://purl.org/dc/elements/1.1/description>  ?description.
?o <http://purl.org/dc/terms/title>  ?title.
}
```

Idref web application	"IdRef is a web application designed by ABES for the enrichment and updating of authority records"
Idref web application	"IdRef is a web application opened in 2010, developed and maintained by ABES. With IdRef you can search the authority files from the Sudoc data base. When using the “create” module, IRef allows the user to enrich and modify existing authority records and to create new entities. Currently used for STAR (a one-stop shop to deposit, reference, disseminate and preserve e-theses) and Calames (Online catalog of archives and manuscripts in Higher Education), two applications managed by ABES, IdRef aims to interact with other applications in the world of Higher Education and Research. A client application can interact with IRef in 2 ways: - Using web services like REST, a client application can integrate into its own interfaces and programs (via the Solr API) IdRef searches as well as the consultation of data in various formats (via the REST service for recovery of records). - By 'plugging in' its own forms on the forms of IdRef, through Javascript, a client application can interact with IdRef, especially send data to and retrieve data from IDRef. ABES will make the IdRef authority file available to Dariah European partners to facilitate the identification and dissemination of digital resources at the European level (digital repositories etc.). The interconnection of databases will create links extended to the community of European researchers. Dariah European partners will use IdRef web services or connect their own forms on IdRef."
Research Information (NARCIS)	"DANS manages a large collection of dutch research information (publications, datasets, researchers, projects and organisations). It allows other services to reuse these by harvesting or querying."
Research Information (NARCIS)	"NARCIS is the main national portal for those looking for information about researchers and their work. Besides researchers, NARCIS is also used by students, journalists and people working in educational and government institutions as well as the business sector. NARCIS provides access to scientific information, including (open access) publications from the repositories of all the Dutch universities, KNAW, NWO and a number of research institutes, datasets from some data archives as well as descriptions of research projects, researchers and research institutes. This means that NARCIS cannot be used as an entry point to access complete overviews of publications of researchers (yet). At the national level, however, there are plans to incorporate the publication data from the academic Metis systems in NARCIS. By doing so, it will become possible to create much more complete publication lists of researchers. In addition, NARCIS presents research news from, among others, Intermediair Nieuws, Science Guide and several universities. In 2004, the development of NARCIS started as a cooperation project of KNAW Research Information, NWO, VSNU and METIS, as part of the development of services within the DARE programme of SURFfoundation. This project resulted in the NARCIS portal, in which the DARENet service was incorporated in January 2007. NARCIS has been part of DANS since 2011."

Web site integration (1)

Very simple PHP code mixed with SPARQL requests




```
require_once( "sparqllib.php" );

$db = sparql_connect( "http://www.rechercheisidore.fr/sparql/" );

$sparql="
select  ?creators {
<$uri>  <http://www.openarchives.org/ore/terms/aggregates>  ?o.
?o <http://purl.org/dc/elements/1.1/creator>  ?creators.
}
 ";

$result = sparql_query( $sparql );
```

Connexion to a SPARQL EndPoint

SPARQL request

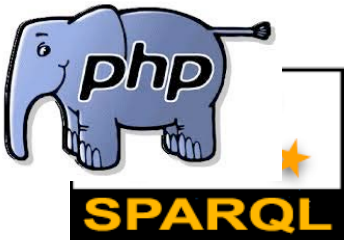
Web site integration (2)

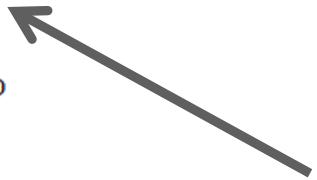
----- **Idref web application** (France)
http://www.rechercheisidore.fr/resource/10670/1.y2dmmj
creators
Christophe Bonnefond
contributors
Christophe Bonnefond
Claude Oulion

----- **Research Information (NARCIS)** (Netherlands)
http://www.rechercheisidore.fr/resource/10670/1.3fbnye
creators
Paula Witkamp
contributors
Elly Dijk

----- **Teaching and Training in Digital Humanities** (Ireland)
http://www.rechercheisidore.fr/resource/10670/1.gnww5x
creators
Susan Schreibman
contributors
Justin Tonra
Susan Schreibman
Orla Murphy
Hugh Denard

----- **Cultura Italia. Un patrimonio da esplorare** (Italy)
http://www.rechercheisidore.fr/resource/10670/1.w2czqo
creators
Sara Di Giorgio
Rosa Caffo
contributors
Sara Di Giorgio





The Result

The List of

DARIAH people

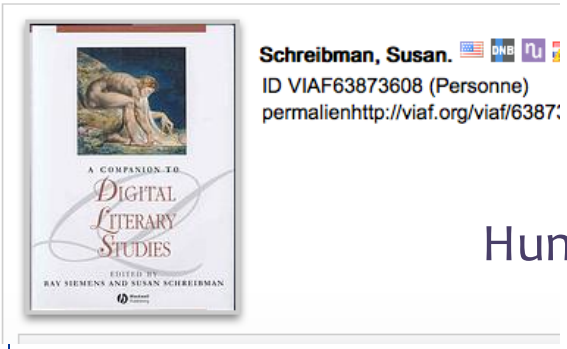
Enrich Data (1)

By using **normalized description**
you have access to other triple stores

For example you can use it to describe someone with a
VIAF ID
http://viaf.org/viaf/63873608

VIAF
Fichier d'autorité international virtuel

and get access to
VIAF data



Human

Machine

<ns2:VIAFCluster>
<ns2:viafID>63873608</ns2:viafID>
<ns2:Document about="http://viaf.org/viaf/63873608/">
<ns2:inDataset resource="http://viaf.org/viaf/data"/>
<ns2:primaryTopic resource="http://viaf.org/viaf/638
</ns2:Document>
<ns2:nameType>Personal</ns2:nameType>
<ns2:sources>
<ns2:source nsid="nr92031294">LCInr 92031294</ns
<ns2:source nsid="LNC10-000079471">LNBILNC10
<ns2:source differentiated="False" nsid="http://d-nb
<ns2:source nsid="271445092">NTAI271445092</ns
<ns2:source nsid="vtls002518440">NUKATln 20050
<ns2:source nsid="http://catalogue.bnf.fr/ark:/12148/
</ns2:sources>
<ns2:length>64</ns2:length>
<ns2:mainHeadings>
<ns2:data>
<ns2:text>Schreibman, Susan.</ns2:text>

Enrich Data (2)

Then integrate VIAF data automatically in your web site

Name : Schreibman, Susan.

Viaf ID : 63873608

Publications :
A companion to digital humanities, 2004:
A companion to digital literary studies
The life and work of Thomas MacGreevy : a critical reappraisal
Collected poems ... 1991:

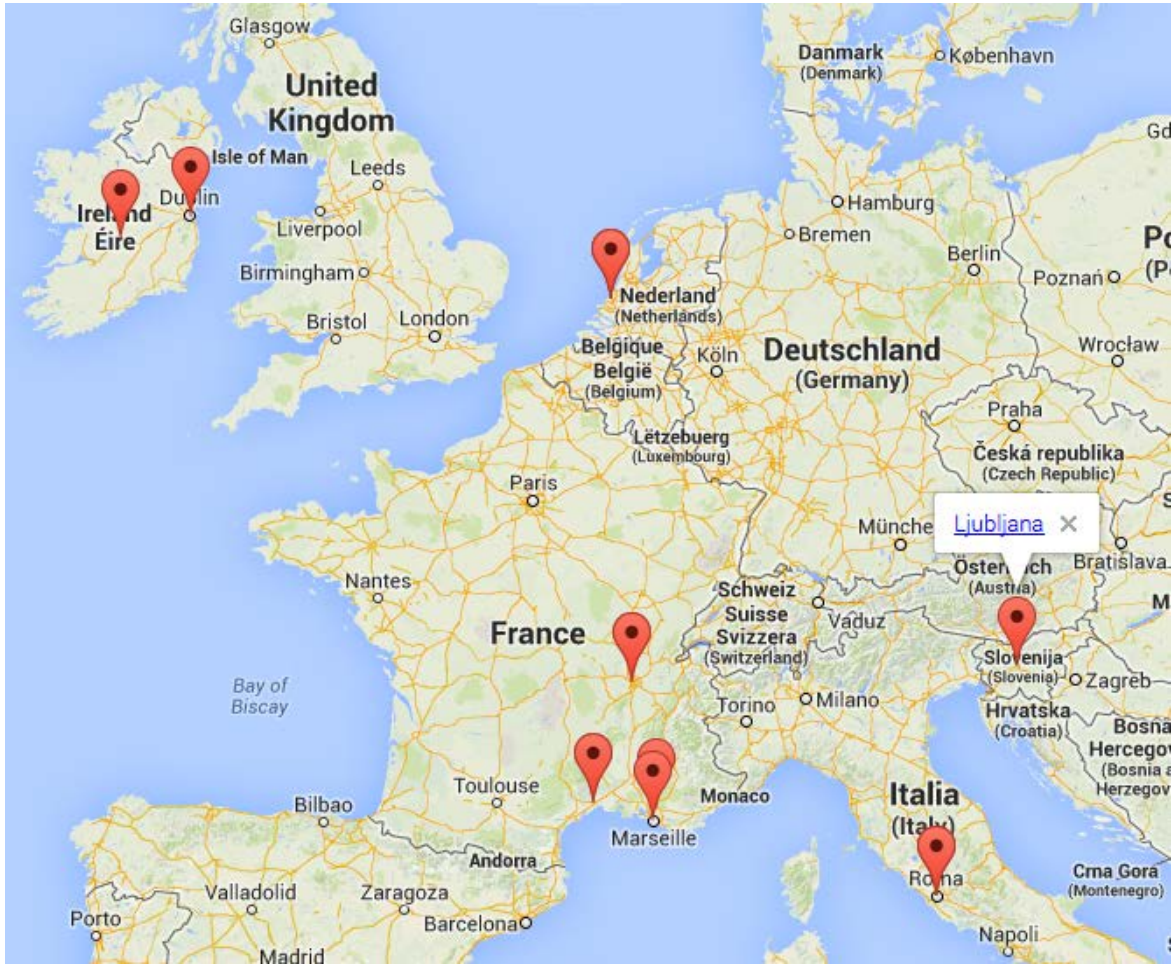
Co-Authors :
Siemens, Raymond George, 1966-
Unsworth, John, 1958-
Siemens, Ray (Raymond George), 1966-
Unsworth, John (John M.)
Siemens, Ray, 1966-

VIAF
Fichier d'autorité international virtuel

http://viaf.org/viaf/63873608

Enrich Data (3)

Another example with GeoNames



GeoNames

We can retrieve the GeoLocalisation of contributions from Geonames and

…

build a map

Enrich Data (4)

What else … with GeoNames … “follow your nose !”

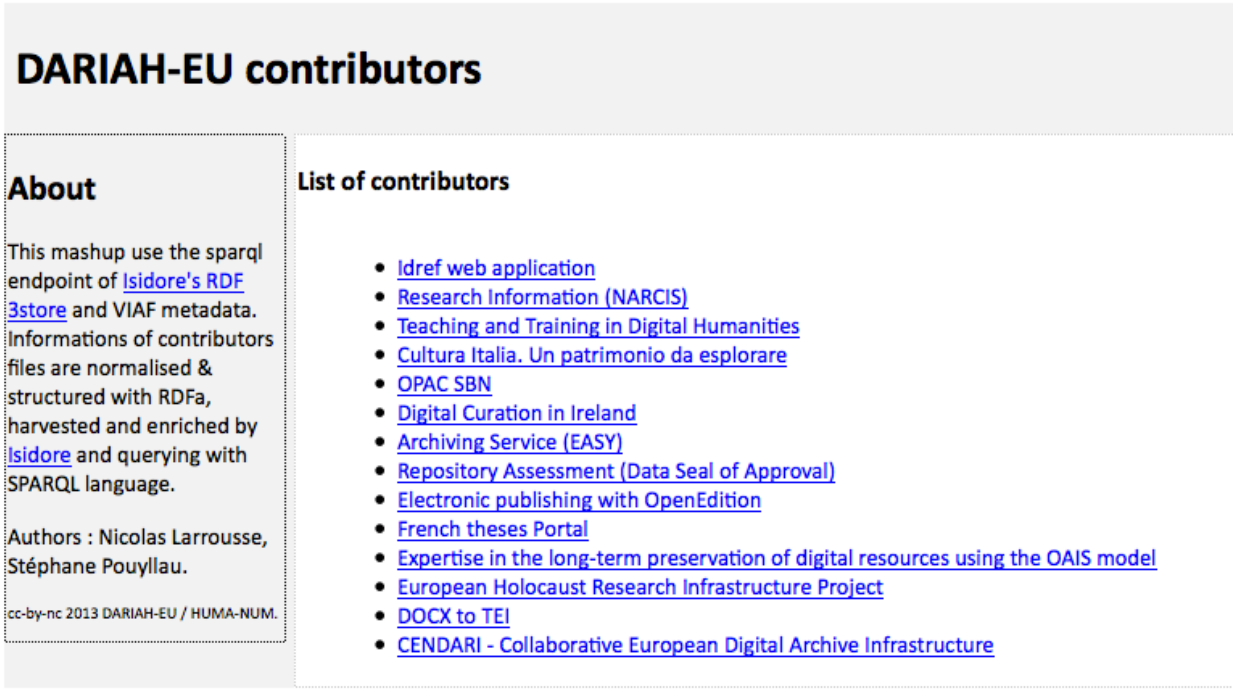
GeoNames

We can retrieve DbPedia entry about Ljubljana from GeoNames Data … and get Data from DbPedia

… and so forth !!

Build your own application (1)

Using these technologies you can build your **own** application **independently**



We have a full demo here

http://sandbox-ist.tge-adonis.fr/dariah-eu/demo/

Build your own application (2)

And … integrate data from other sources, reshaping it with your own template

Teaching and Training in Digital Humanities

Data from VIAF

Ireland has significant expertise in third-level education in Digital Humanities, as well as significant experience in training.

Contact : Susan Schreibman [more information about ...]

Some publications :

- A companion to digital humanities, 2004:
- A companion to digital literary studies
- The life and work of Thomas MacGreevy : a critical reappraisal
- Collected poems ... 1991:

Some coauthors :

- Siemens, Raymond George, 1966-
- Unsworth, John, 1958-
- Siemens, Ray (Raymond George), 1966-
- Unsworth, John (John M.)
- Siemens, Ray, 1966-

Metadata are extract from VIAF database (http://viaf.org/viaf/63873608)

Date of contribution	2013-07-22
PID	10670/1.gnww5x
Contributor topics	Arts - Humanities - Digital Methodologies - VCC2 - Teaching Digital Humanities - Digital Humanities Training - type of offer: Expertise - Digital Scholarship - Digital Humanities - Digital Tools -

http://sandbox-ist.tge-adonis.fr/dariah-eu/demo/

Next Steps ?

To **add** new DARIAH contributions to the Triple Store

To **display** all the contributions, institutions and DARIAH People with a **search engine** on the DARIAH-EU Web Site

…