

Open EFG workshop on data quality and semantic interoperability issues in European film archives, Frankfurt am Main, 30 May 2011

VIRTUAL



14,5 millions clusters

INTERNATIONAL

21 authority files from 18 institutions18,4 millions name records processed

AUTHORITY FILE

Names of persons and of corporate bodies

Geographical names: being examined

Works: plan for the future



• Deutsche Nationalbibliothek

• Bibliothèque nationale de France

• National Library of Australia

• National Library of the Czech Republic

Bibliotheca Alexandrina (Egypt)

• Getty Research Institute

National Library of Israel

• Istituto Centrale per il Catalogo Unico (Italy)

Biblioteca National de Portugal

• Biblioteca Nacional de España

• National Library of Sweden

• Swiss National Library

• Vatican Library

NUKAT Center (Poland)

• ■■ Library and Archives Canada

National Széchényi Library (Hungary)

RERO (Switzerland)









VIAF OBJECTIVES

- Share authority data around the world
- Reduce cataloguing costs
- Simplify authority control internationally
- Provide authority data in form, language and script users want
- > Provide linked data services

VIAF: HOW DOES IT WORK?

STEP 1:

each partner should provide its authority file and its bibliographic file

Relationship between authority and bibliographic file



Authority recordIn UNIMARC/A

001FRBNF120131556

700 | \$7ba0yba0a\$8freara\$90\$aIbn Rušd\$bMuh.ammad ibn Ah.mad Abū al-Walīd\$f1126-1198

££1126-1198\$مدّ بن أحمد أبو الوليدط\$ابن رشد\$\$1126-1126\$\$



Bibliographic record In UNIMARC/B

```
2001 $aAverroes' commentary on Plato's republic ... 700 | $312013155$aAverroes$f1126-1198$4070
```

VIAF: HOW DOES IT WORK?

STEP 2:

mining each bibliographic record to create a derived authority record for each entity appearing as a contributor

MINING THE BIBLIOGRAPHIC RECORD

- Authors & contributors
- Title
- Publisher & ISBN
- Material type
- Place and date of publication
- Language of the resource (if applicable)
- Classification numbers
- Identifier of the record

CREATE THE DERIVED AUTHORITY RECORD

- Creation of local fields (9XX) to store data from bibliographic record
- All text is normalized
- Publication date is by decade
- Subject grouped into broad subject areas
- Co-author
- Material type is coded

Authority record 00505cz a2200157n 450 0 1 oca01144962 1 5 19880921165012.4 2 8 840702n| acannaab| | n aaa ||| 3 10 \$a n 88090379 4 40 \$a DLC \$c DLC \$d DLC 5 100 1 \$a Leigh, Mitch, \$d 1928 6 670 \$a the man of la mancha, c1966: \$b t.p. (Mitch Leigh)

Bibliographhic record

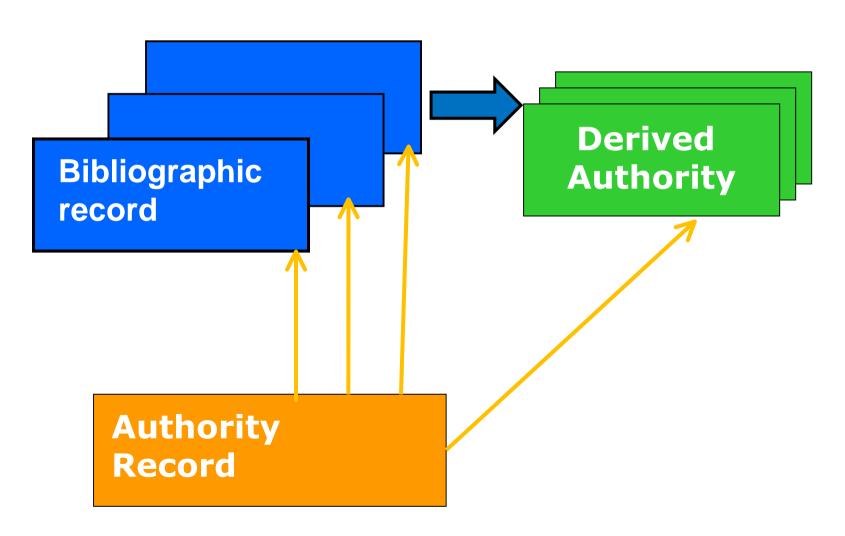
```
00638ncm a22002057a 450
 LDR
  1 5773347
  5 19960820101947.4
  8 960815s1965
                    oruuua
                                        ena
       $a
             96753638
10
040
      $a DLC $c DLC
019
      $a 17706440
020
       $c $2.95
028 22 $a 48418 $b Matrix Publ. Co.
045 2 $b d198006 $b d198007
       $b va01 $b ve01 $a ka01
048
050 00 $a M1258 $b .L
100 1 $a Leigh, Mitch, $d 1928-
245 14 $a The man of La Mancha / $c by Mitch Leigh & Joe Darion;
          arr. By Roland Barrett & Alan Keown.
260
       $a Springfield, OR: $b Matrix Publ. Co., $c c1965.
300
      $a 1 score (16 p.); $c 18 x 27 cm.
       $a Brief record.
500
650 0 $a Musicals $x Excerpts.
600 10 $a Leigh, Mitch $x Musical settings.
```

700 1 \$a Darion, Joe.

Example of a derived auhtority record

```
Derived authority
00505cz a2200157n 450
  1 oca01144962
   5 19880921165012.4
   8 840702n| acannaab|
                       In aaa III
       San 88090379
      Sa DLC Sc DLC Sd DLC
5 100 1 $a Leigh, Mitch, $d 1928-
6 670
      $a the man of la mancha, c1966: $b t.p. (Mitch Leigh)
             $a 88030979
 6 903
 7 910 14 $a the man of la
   mancha
 8 921
             $a matrix publ co
 9 922
             $a oru
10 930
             $a mitch leigh
11 940
             $a eng
             $a 234
12 942
13 943
             $a 196x
14 944
             Sa cm
15 950 1
             $a darian, joe $d
   1928-
```

CREATION OF DERIVED AUTHORITY RECORDS



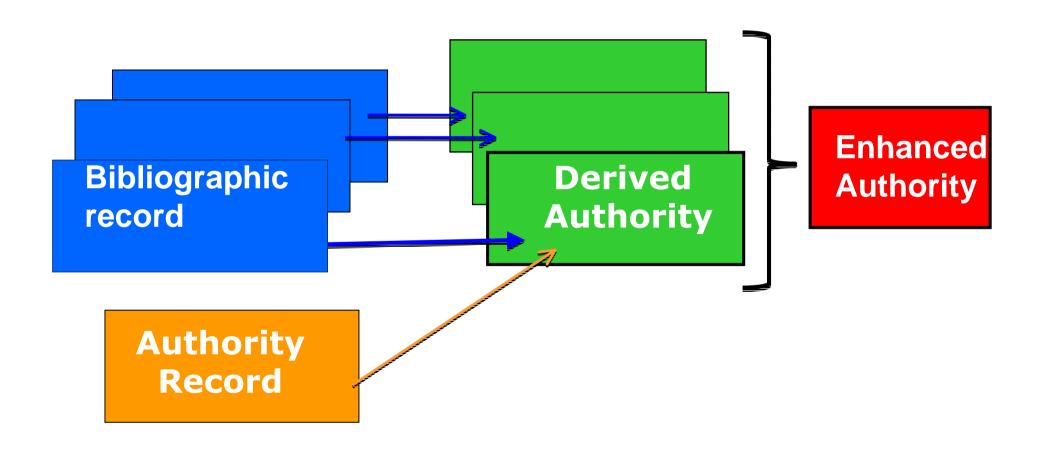
VIAF: HOW DOES IT WORK?

STEP 3:

combination of all the derived authority records created for a given entity

to build an enhanced authority record for this entity

CREATION OF AN ENHANCED AUTHORITY RECORD

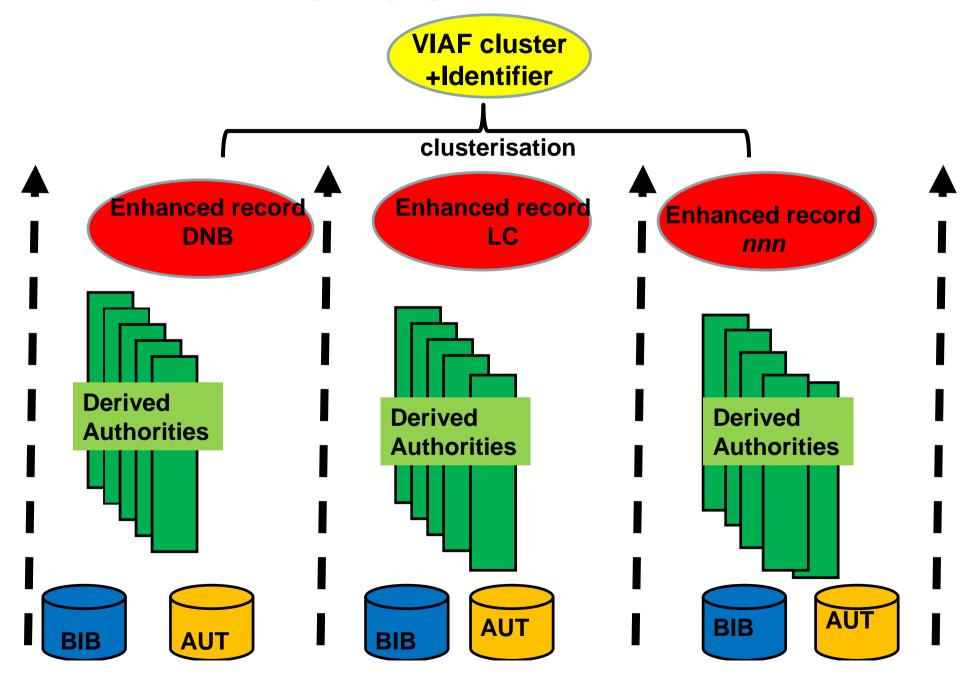


VIAF: HOW DOES IT WORK?

STEP 4:

The enhanced authority records created from each partner file for a same entity are clustered to form the VIAF record

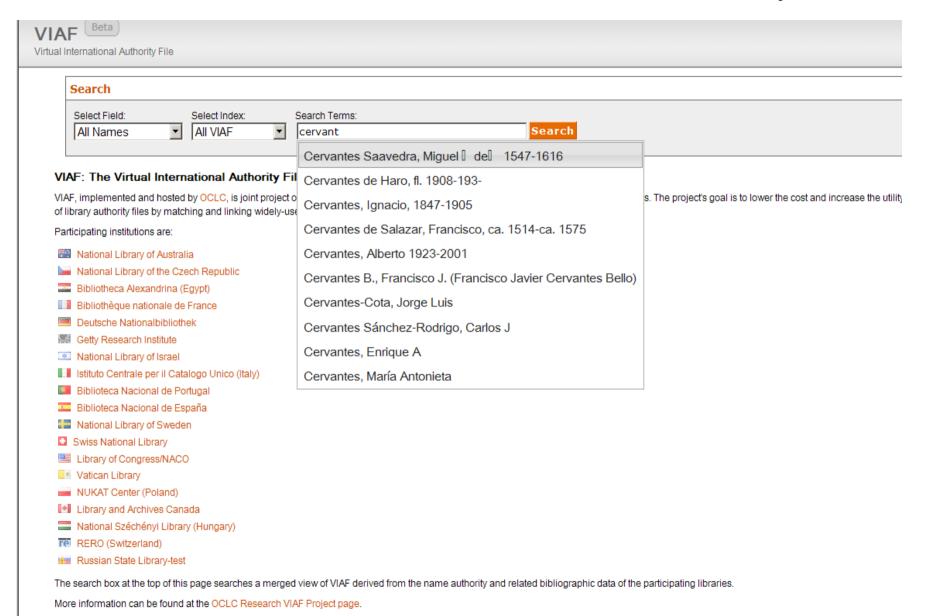
THE VIAF CLUSTER



http://www.viaf.org



As viewed May 28, 2011





Cervantes

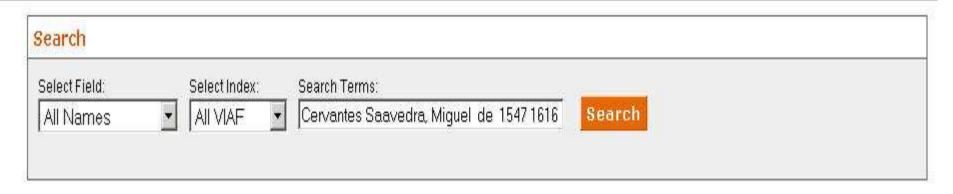


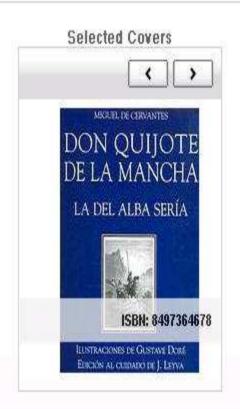
1 heading found for Cervantes Saavedra, Miguel de 1547 1616





Cervantes





Preferred Forms

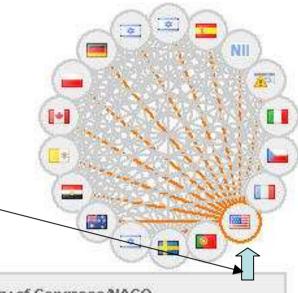
Cervantes

- 100 ta Cervantes Saavedra, Miguel de, td 1547-1616
- 200 ta Cervantes, to Miguel de, tr 1547-1616
- 100 ta Cervantes Saavedra, Miguel de, td 1547-1616
- 200 ta Cervantes Saavedra to Miguel de tr 1547-1616
- 🔤 100 ‡a Cervantes Saavedra, Miguel de, ‡d 1547-1616 🔣
- 💶 200 ‡a Cervantes Saavedra ‡b , Miguel : de 🐠
- 🚁 100 ‡a Cervantes Saavedra, Miguel de 🔣
- MII 100 ta Cervantes Saavedra, Miguel de td 1547-1616
- III 100 ta Cervantes Saavedra, Miguel de td 1547-1616
- 100 та СЕРВАНТЕС СААВЕДРА, МИГЕЛЬ ДЕ, та 1547-1616
- 100 ta Cervantes Saavedra, Miguel de, td 1547-1616
- 100 ‡a Cervantes Saavedra, Miguel de ‡d 1547-1616
- 🚃 100 ta Cervantes Saavedra, Miguel de td. (1547-1616).
- 100 ta Cervantes Saavedra, Miguel de, td 1547-1616
- 100 ta Cervantes Saavedra, Miguel de, td 1547-1616
- 🍱 م. 1616-1547 d ثربانتس ساندرا، متحل دي. 🛊 100 🚾
- 100 ta Cervantes Saavedra, Miguel de, td 1647-1616
- 💌 100 ta סרתטס, מיגל דה, 100 ta ל 1547-1616



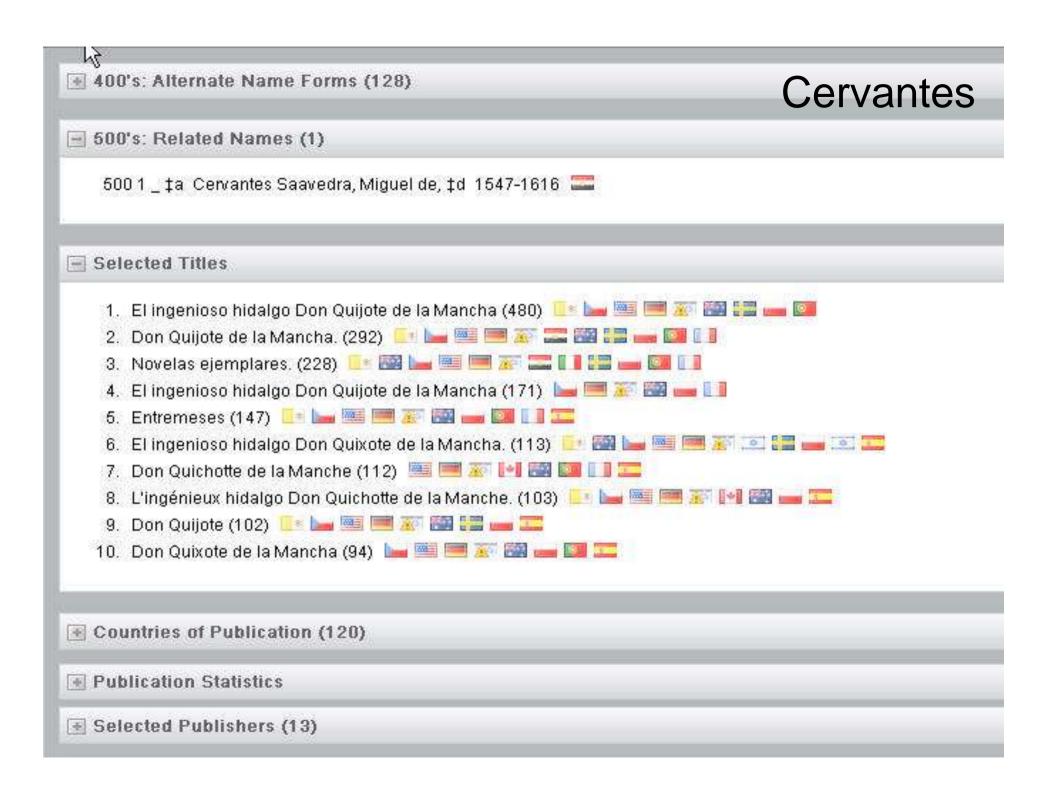
Preferred Forms 100 ta Cervantes Saavedra, Miguel de, td 1547-1616 200 ta Cervantes, th Miguel de, tf 1547-1616 00 ‡a Cervantes Saavedra, Miguel de, ‡d 1547-1616 200 ta Cervantes Saavedra to Miguel de tr 1547-1616 100 ta Cervantes Saavedra, Miguel de, td 1547-1616 200 ta Cervantes Saavedra tb , Miguel : de 🌇 100 ‡a Cervantes Saavedra, Miguel de 🔣 NII 100 ta Cervantes Saavedra, Miguel de td 1547-1616 🍱 100 ‡a Cervantes Saavedra, Miguel de ‡d 1547-16 100 ta СЕРВАНТЕС СААВЕДРА, МИГЕЛЬ ДЕ, td. 100 ‡a Cervantes Saavedra, Miguel de, ‡d 1547-16 to 100 ‡a Cervantes Saavedra, Miguel de ‡d 1547-1616 100 ta Cervantes Saavedra, Miguel de td (1547-1616). 100 ta Cervantes Saavedra, Miguel de, td 1547-1616 100 ta Cervantes Saavedra, Miguel de, td 1547-1616 🐉 م. 1616-1547 dd ثربانتس ساندرا، منحل دي، 100 ta 100 ta Cervantes Saavedra, Miguel de, td 1547-1616 🖭 100 ta, מיגל דה, a ל 1547-1616 💯

Cervantes



Library of Congress/NACO

LCIn 79100233





Cervantes

Personal Information

Gender: Male

Nationality:

ES - Spain 🚟 🚃 🔯







Language:

spa - Spanish 🛄

External Links

Wikipedia - Miguel de Cervantes

WorldCat Identities

The VIAF record in RDF:

a common vocabulary and syntax

```
<?xml·version="1.0"·encoding="UTF-8"·?>·~
  -<rdf:RDF·xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"-</pre>
  xmlns:owl="http://www.w3.org/2002/07/owl#"-
  xmlns: viaf="http://viaf.org/ontology/1.1/#".
                                                                              Cervantes in RDF
  xmlns:foaf="http://xmlns.com/foaf/0.1/".
  xmlns:skosxl="http://www.w3.org/2008/05/skos-xl#".
  xmlns:skos="http://www.w3.org/2004/02/skos/core#".
  xmlns:rdaGr2="http://RDVocab.info/ElementsGr2/".
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#".
  xmlns:rdaEnt="http://RDVocab.info/uri/schema/FRBRentitiesRDA/".
  xml:base="http://viaf.org/">~
  --<rdf: Description rdf: about="http://viaf.org/viaf/17220427">+
  ·<rdf:type·rdf:resource="http://xmlns.com/foaf/0.1/Person"·/>·₽
  <rdf:tvpe-</pre>
  rdf:resource="http://RDVocab.info/uri/schema/FRBRentitiesRDA/Person"/>--
  ·<foaf:name>Cervantes·Saavedra,·Miguel·□ de□ ·1547-1616</foaf:name>···
  ·<foaf:name>Cervantes·Saavedra,·Miguel·de</foaf:name>·₽
  °·<foaf:name>Cervantes,·Miguel·de,·1547-1616</foaf:name>···
  °·<foaf:name>Ceрвантес·Caaведра,·Мигель·Де,·1547-1616</foaf:name>⋅-
  ° · < foaf: name > 1547-1616·,מיגליזה, oc/foaf: name > · ←
  ----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</l>----------------------------------------------------------------------</l>-----------------------------------
  ° < foaf: name > Cervántes, · Miguel·de · 1547 - 1616 < / foaf: name > · ¶
```

VIAF: what are the uses?

VIAF AND THE SEMANTIC WEB VIAF ONTOLOGY

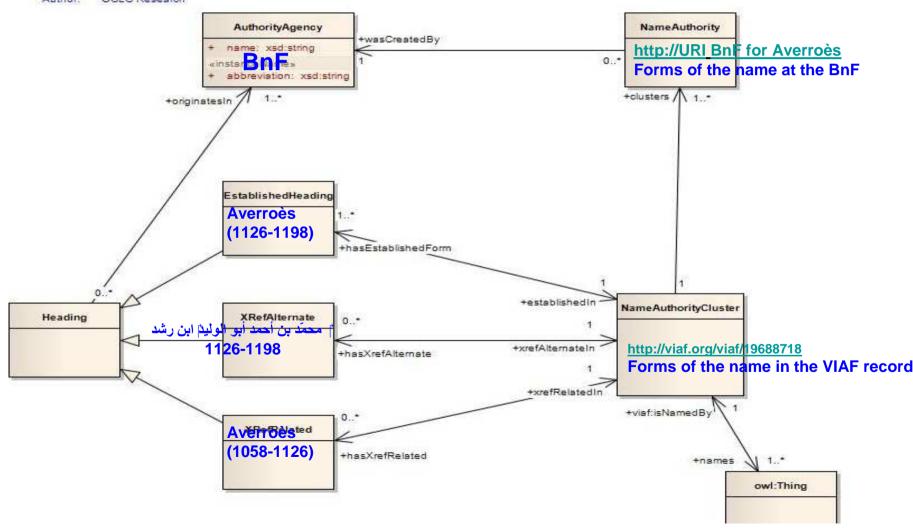
Name: viaf.owl

Package: http://viaf.org/ontology/1.1/

Version: 1.1

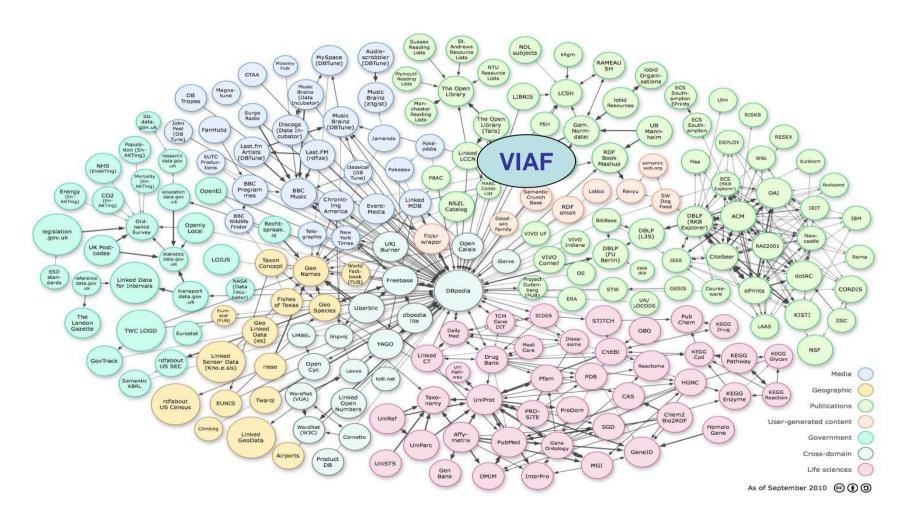
Author: OCLC Research

Example: Averroes in RDF



VIAF AND THE SEMANTIC WEB

in the cloud of the linked data



USAGES OF VIAF

- ✓ A reference tool for cataloguers
- ✓ Play a role in the initialisation of the ISNI data base (ISO 27729)
- ✓ Play a role in the European project ARROW (identifiers of stakeholders)
- ✓ Dump in RDF are available for use in the linked data world
- √etc.

NEXT STEPS FOR VIAF

- Better searching
- More "Linked data"
 - Related persons as in WorldCat Identities, Wikipedia, etc.
- Participants beyond libraries
 - Rights management agencies, Publishers
 - Museums, Archives
- More name types
 - Corporate and Family names
 - Uniform titles
 - Geographic names

CONCLUSION

- « Trust » is an important notion in the architecture of the Semantic Web
- The quality of the library authority data is generally recognized
- The authority work should be encouraged to offer valuable source data