

*From MARC to BIBFRAME in a
Hybrid Metadata Ecosystem
The School of Salamanca Digital Library*

BIBFRAME Workshop in Europe 2026

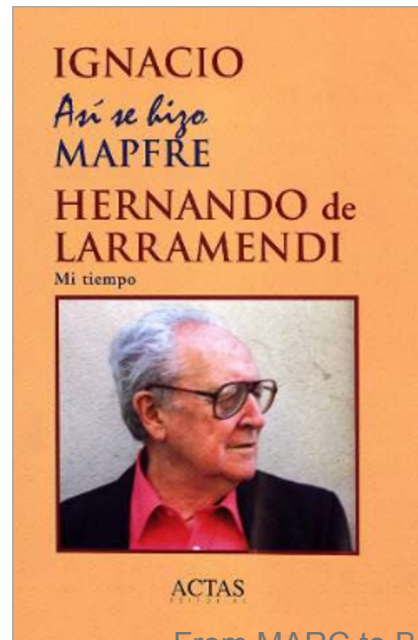


Xavier Agenjo
Ignacio Larramendi Foundation
xavier.agenjo@larramendi.es

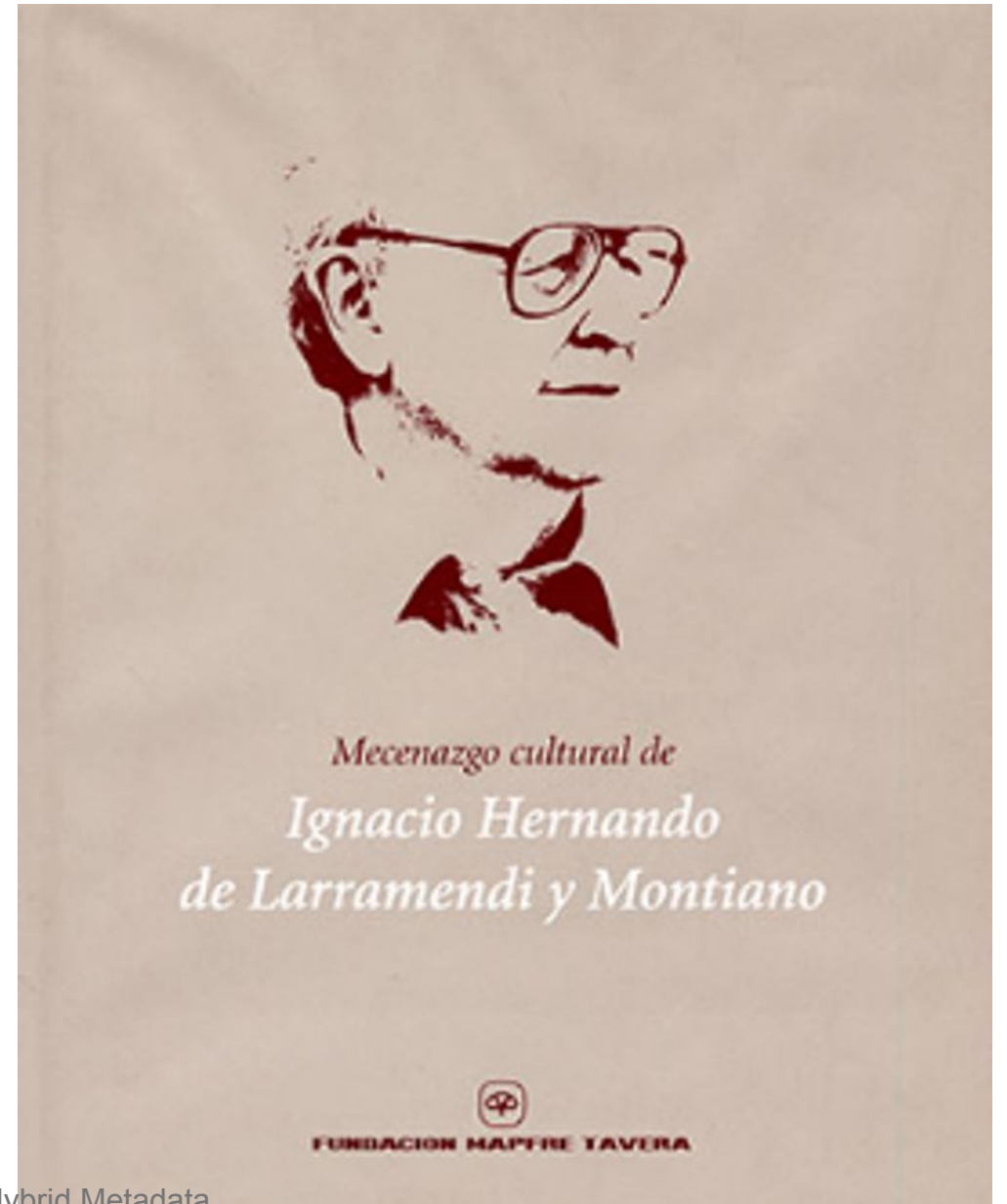




8/09/2026



From MARC to BIBFRAME in a Hybrid Metadata
Ecosystem

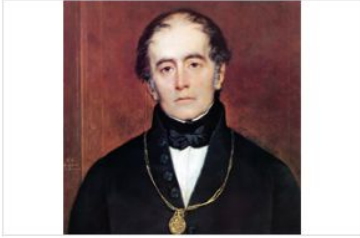


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The Polimath Virtual Library

- The Project: constant updating of the inventory of Spanish science and culture in all languages and periods
- It brings together more than 12,000 Spanish, Portuguese, Latin American and Brazilian polymaths (and other authors) (including writers on science, exploration, literature, thought, economics and other sciences)
- Polymaths are multifaceted creators whose works marked a turning point in their field
- A bibliographic compilation of all of them is offered based on the digital versions of their works, made by the Foundation itself or, mostly, harvested from open access digital repositories such as Hispana or Europeana

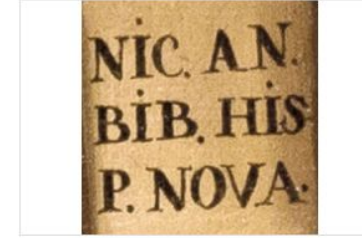
Microsites components of the Polymath Virtual Library



Biblioteca Virtual de Andrés Bello



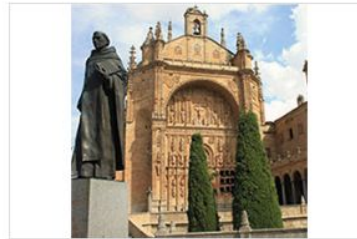
Viajes científicos ilustrados



Novatores



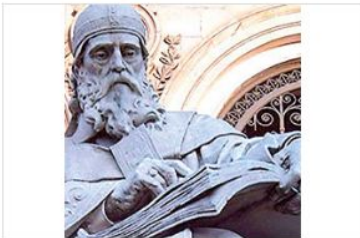
La ciencia y la técnica en la empresa americana



Escuela de Salamanca 3.0



Antigua Escuela de Traductores de Toledo



Autores visigóticos y mozárabes



Francisco Sánchez, el Escéptico



Cervantes, maestro universal

Virtual Library of the Fifth Centenary of the School of Salamanca



- The School of Salamanca is a Renaissance school of thought that brought about a profound transformation in fields as diverse as theology, economics, jurisprudence, science, and philosophy.
- The School of Salamanca began when Francisco de Vitoria began to teach in 1526

Technical bases: interoperability and data reuse

- Works digitized by the Ignacio Larramendi Foundation itself
 - Direct cataloguing in MARC 21/RDA
- A compilation of works already digitized in numerous libraries. Reuse of bibliographic data through
 - Hispana SRU Server
 - Europeana API
 - Importing MARC 21 records
- Authority records are the backbone of the system
 - Reuse of authority data, mainly, through VIAF



Technical bases

- Database Format:
 - MARC 21 ☐ [Modern MARC](#)
- Bibliographic data Import. Supported formats:
 - MARC 21 in different serializations
 - Dublin Core
 - MODS from METS files
 - Europeana Data Model
 - ... BIBFRAME
- Importing Authority and Person Data
 - MARC 21

The image displays two screenshots of the DIGIBIB interface, illustrating the transition from MARC 21 to BIBFRAME metadata.

Top Screenshot (MARC 21):

- Edición** (Edit) section shows a yellow bar indicating 3 incidents (Incidencias: 3) with options to show or recheck.
- Confessionario util y provechoso** (Useful and profitable confessionary) section shows a form for editing a record. The form includes fields for:
 - 100: Nombre de persona - Punto de acceso principal** (Main access point for the person's name):
 - I1: Tipo de nombre de persona:** Apellido(s)
 - S0: Cód autoridad - nombre persona:** FILA20100034415: Vitoria, Francisco de, 1483-1546. Confessionario util y provechoso. 1558. Español
 - Sa: Nombre de persona:** Vitoria, Francisco de
 - Sd: Fechas asociadas:** 1483-1546
 - Su: Filiación:**
 - St: Título de la obra:** Confessionario util y provechoso
 - Sf: Fecha de publicación:** 1558

- MARC Etiquetado** (MARC Tagged) section shows a list of tags and their values, including LDR, 001, 003, 005, 007, 008, 040, 041, 100, 245, 264, 300, 336, 337, 338, 347, 377, 534, 650, 710, and 950.

Bottom Screenshot (BIBFRAME):

- Edición** (Edit) section shows a green bar indicating 0 incidents (Incidencias: 0) with a recheck option.
- Vitoria, Francisco de, 1483-1546** section shows a form for editing a record. The form includes fields for:
 - 100: Encabezamiento - Nombre de persona** (Heading - Person's name):
 - I1: Tipo de nombre de persona:** Apellido(s)
 - Sa: Nombre de persona:** Vitoria, Francisco de
 - Sb: Numeración:**
 - Sc: Títulos y otros términos asociados al nombre:**
 - Sd: Fechas asociadas al nombre:** 1483-1546
 - Añadir:** \$q: Forma desarrollada del nombre
- MARC Etiquetado** (MARC Tagged) section shows a list of tags and their values, including LDR, 001, 003, 005, 008, 024, 034, 035, and 950.

The Polymath Virtual Library and Linked Open Data (2011-)

- Main objective: to seek and improve accessibility and visibility on the Web
 - Creating an OAI repository to allow metadata harvesting
 - It has participated in Hispana (2006), Europeana (2008) and OAIster (2011) since their inception
 - Adding a specific repository for authority records
- A way to structure and publish data about persons in the, then new, Linked Open Data environment
- From Person Name Records to Person Records
- Accessibility and visibility on the Semantic Web
 - Publication of data according to the Europeana Data Model ontology (2011)

2011: Europeana and the W3C Library Linked Data Incubator Group Case Studies

The Polymath Virtual Library and EDM

The Polymath Virtual Library shows how the semantic relationships between authors and their works have been described using EDM.

Bibliographical approach

The [Polymath Virtual Library](#)^[1] aims to bring together the works of the most important Hispanic polymaths and to establish semantic relationships between them, expressing the different schools of thought, from Seneca to Octavio Paz in Hispania ^[2]. The aim is to bring together information, data, digital texts and web resources about Spanish, Hispano-American, Brazilian and Portuguese polymaths from all times.

The examples used in this case study illustrate, for instance how the author Francisco Sánchez, the Skeptic (1550-1623), was influenced by the authors [Pyrrho](#) and [Sextus Empiricus](#), through the translation into Latin of the *Outlines of Pyrrhonism* by Sextus Empiricus in 1562.

Use Case Polymath Virtual Library

[Back to Use Cases & Case Studies page](#)

Contents

- 1 Name
- 2 Owner
- 3 Background and Current Practice
- 4 Goal
- 5 Target Audience
- 6 Use Case Scenario
- 7 Application of linked data for the given use case
- 8 Existing Work (optional)
- 9 Related Vocabularies (optional)
- 10 Problems and Limitations (optional)
- 11 Related Use Cases and Unanticipated Uses (optional)
- 12 References (optional)

Name

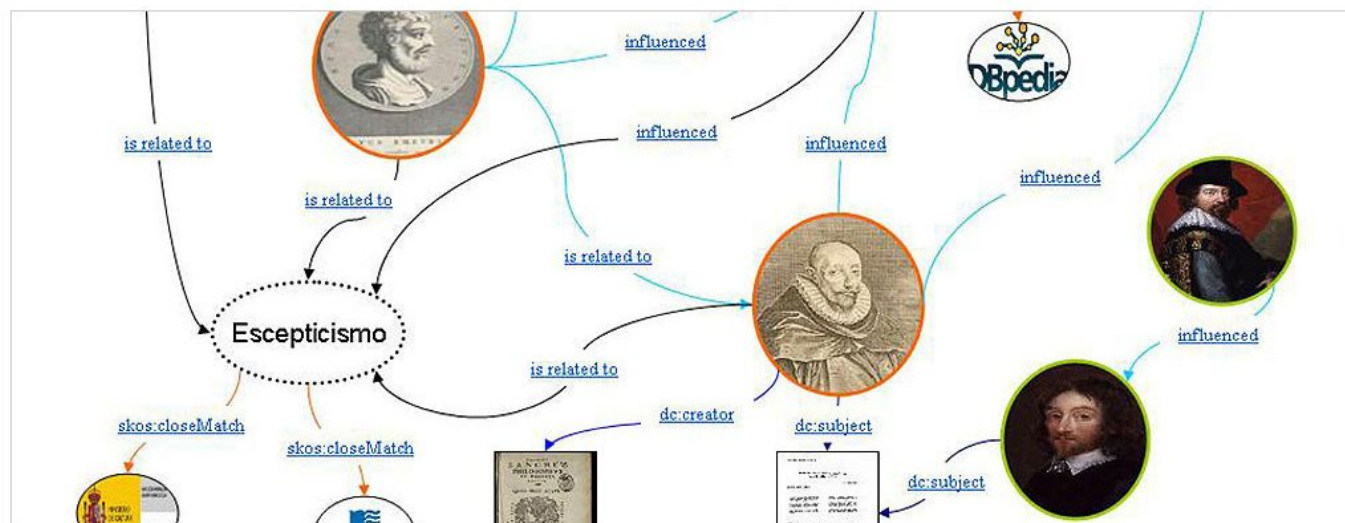
Polymath Virtual Library

Owner

Fundación Ignacio Larrañendi (<http://www.larrañendi.es>) Contact person: Xavier Agenjo (xavier.agenjo@larrañendi.es)

Europeana Use Case

Caso de Estudio de Europeana



Europeana escogió como caso de estudio de EDM la [Biblioteca Virtual de Francisco Sánchez el Escéptico](#), como se puede ver en el sitio Web [EuropeanaPro](#), en "EDM Case studies": [The Polymath Virtual Library and EDM](#).

Este caso de estudio está basado en el uso de vínculos entre los registros de autoridad de los polígrafos de la Biblioteca Virtual de Polígrafos gracias al uso de campos [MARC21](#).

Los registros están vinculados unos con otros a través de [campos 5XX](#), en los que se hace constar la relación semántica entre ellos. Esta relación semántica está anotada gracias a la [ontología](#) de la [DBpedia](#). Así, si un autor ha influido en otro, esto se codifica por medio de la

Persons Records in Polymath Virtual Library: Facilitating Information Retrieval and Usability

- System Backbone
 - Cataloguing in MARC 21 / RDA
- Linked Open Data
 - Europeana Data Model
 - <https://www.larramendi.es/aut/PO LI20090019539>
 - <https://www.larramendi.es/aut/PO LI20090019539.rdf>
 - Linked to external resources (Wikidata, VIAF, LC, GND, BNE...)
- Wikidata identifier
[BVLarramendi ID](#)
- Search items in the catalog
 - Works as an author
 - Works about this person
 - Other Contributions to Works
 - All related works
- Internal navigation
 - Field of activity
 - Affiliation
 - Occupation
 - Associated language
- Navigation to external sources

OAI Repository for Authorities (MARC 21 and Europeana Data Model)

```
▼<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema
http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd">
  <responseDate>2026-08-15T09:32:51Z</responseDate>
  <request verb="GetRecord" identifier="oai:aut.larramendi.es:3711" metadataPrefix="linked_data">|
▼<GetRecord>
  ▼<record>
    ▼<header>
      <identifier>oai:aut.larramendi.es:3711</identifier>
      <datestamp>2026-01-26</datestamp>
      <setSpec>Poligrafos</setSpec>
    </header>
    ▼<metadata>
      ▼<edm:Agent xmlns:edm="http://www.europeana.eu/schemas/edm/" xmlns:rdf="http://www.w3.org/1
instance" xmlns:wgs84_pos="http://www.w3.org/2003/01/geo/wgs84_pos#" xmlns:rdaGr2="http://
xmlns:foaf="http://xmlns.com/foaf/0.1/" xmlns:owl="http://www.w3.org/2002/07/owl#" xmlns:o
xmlns:dcterms="http://purl.org/dc/terms/" xmlns:dc="http://purl.org/dc/elements/1.1/" rdf:
xsi:schemaLocation="http://www.w3.org/1999/02/22-rdf-syntax-ns# http://www.europeana.eu/sc
      <skos:prefLabel xml:lang="es">Vitoria, Francisco de, 1483-1546</skos:prefLabel>
```

Authority record display in the Polymath Virtual Library

Vitoria, Francisco de, 1483-1546

Formato:

[APLICAR](#)

Exportar: [MARCXML](#)

[<EAC-GPF>](#)

[W3C](#) [RDF](#)

[Enlace persistente](#)

[Ver ficha en portal privado](#)



Vitoria, Francisco de, 1483-1546

(Burgos, España, 1483 - Salamanca, España, 1546)

Poligrafista: [Belda Plans, Juan](#)

Apuntes biográficos/históricos

Sacerdote, maestro, jurisconsulto, teólogo, escritor y economista, responsable de la implantación de la "Suma Theologiae" tomista como estudio obligatorio en las instituciones educativas en las que se imparten clases de Teología. En 1504 ingresó en la...

[Ver más](#)

Resumen biográfico extraído de Wikipedia en español:

"Francisco de Vitoria (Burgos, 1483 o 1486-Salamanca, 12 de agosto de 1546) fue un fraile dominico español, escritor y catedrático de la Escuela de Salamanca, quien se destacó por sus ideas y contribuciones al derecho internacional y la economía moral basados en el pensamiento humanista del realismo aristotélicotomista."

Abstract from English Wikipedia:

"Francisco de Vitoria (or Victoria), OP (c. 1483, Burgos or Vitoria-Gasteiz - 12 August 1546, Salamanca), was a Spanish Renaissance Roman Catholic philosopher, theologian and jurist. He is the founder of the tradition i...

[Ver más](#)

Búsquedas en el catálogo

[Obras como autor](#)

[Obras sobre esta persona](#)

[Obras en las que colabora](#)

[Todas las obras relacionadas](#)

Campo de Actividad

[Teología](#)

[Jurisprudencia](#)

[Economía](#)

Filiación

[Escuela de Salamanca](#)

[Dominicos](#)

[Université de Paris](#)

[Colegio de San Gregorio \(Valladolid\) \(1523-1526\)](#)

[Universidad de Salamanca \(1526-1546\)](#)

Linked resources



Vitoria, Francisco de, 1483-1546

(Burgos, España, 1483 - Salamanca, España, 1546)

Polígrafista: [Belda Plans, Juan](#)

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▼ Ver más

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▼ Ver más

Linked Open Data

-  [Datos.bne.es](#) ▼
-  [Catálogo de datos abiertos de la Biblioteca Virtual Miguel de Cervantes](#) ▼
-  [Virtual International Authority File](#) ▼
-  [Library of Congress Linked Data Service](#) ▼
-  [data.bnf.fr \(Bibliothèque nationale de France\)](#) ▼
-  [SUDOC \(Identifiants et Référentiels pour...\)](#) ▼
-  [Gemeinsame Normdatei \(GND\) Deutschen Nationalbibliothek](#) ▲

URI

<http://d-nb.info/gnd/118768735> 

GndIdentifier

118768735

Page

https://de.wikipedia.org/wiki/Francisco_de_Vitoria 

Equivalente

https://dbpedia.org/resource/Francisco_de_Vitoria 

<http://viaf.org/viaf/51697120> 

<https://isni.org/isni/0000000458750058> 

<http://www.wikidata.org/entity/Q312384> 

<http://id.loc.gov/rwo/agents/n83011385> 

OldAuthorityNumber

(DE-588)11768239X

Relationships (intellectual, personal, etc.)

Expressed in MARC XML and their
corresponding visualization

```
<datafield tag="500" ind1="1" ind2=" ">
  <subfield code="0">POLI20090013483</subfield>
  <subfield code="i">Influye en</subfield>
  <subfield code="a">Casas, Bartolomé de las</subfield>
  <subfield code="d">1474-1566</subfield>
  <subfield code="4">http://dbpedia.org/ontology/influenced</subfield>
  <subfield code="w">rnnn</subfield>
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  <subfield code="d">1588-1679</subfield>
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  <subfield code="w">rnnn</subfield>
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  <subfield code="a">Université de Paris</subfield>
  <subfield code="d">1158-1971</subfield>
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</datafield>
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  <subfield code="4">http://dbpedia.org/property/trainer</subfield>
  <subfield code="w">rnnn</subfield>
</datafield>
```

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Relaciones

Docente/Instructor:

Colegio de San Gregorio (Valladolid)

Universidad de Salamanca

Formado en:

Université de Paris (1158-1971)

Influye en:

Casas, Bartolomé de las, 1474-1566

Sepúlveda, Juan Ginés de, 1490-1573

Azpilcueta, Martín de, 1492-1586

Soto, Domingo de O.P., 1495-1560

Cano, Melchor, 1509-1560

Covarrubias y Leyva, Diego de, 1512-1577

Peña, Juan de la, 1513-1565

Mercado, Tomás de, 1523-1575

León, Luis de, 1527-1591

Fonseca, Pedro da, 1528-1599

Báñez, Domingo, 1528-1604

Molina, Luis de, 1535-1600

Mariana, Juan de, 1536-1624

Acosta, José de, 1540-1600

Suárez, Francisco, 1548-1617

Vázquez, Gabriel, 1549-1604

Roa Dávila, Juan, 1552-1630

Pérez de Mesa, Diego, 1563 - Aproximadamente 1633

Hobbes, Thomas, 1588-1679

Grotius, Hugo, 1583-1645

Bartolomé de Medina, 1527-1580

From MARC to BIBFRAME in a Hybrid Metadata
Ecosystem

Person in BIBFRAME

- Person descriptions (subclass of Agent) are left out of BIBFRAME modeling
- No MARC 21 Authority to BIBFRAME Conversion Rules are defined
- Agents must be represented as URIs in other vocabularies outside BIBFRAME.
- BIBFRAME does not prejudice the use of a particular ontology, different data models could be used behind a URI
 - Europeana Data Model (e.g., FIL)
 - MADS/RDF (LC and PCC environment)
 - RDA Registry (or equivalent, e.g., BNE, GND)
 - Schema.org (e.g., VIAF)
 - Even Wikidata or DBpedia

```
<bf:Work rdf:about="http://id.loc.gov/resources/works/175394" >
  <bf:contribution >
    <bf:Contribution >
      <rdf:type rdf:resource="http://id.loc.gov/ontologies/bibframe/PrimaryContribution" />
      <bf:agent >
        <bf:Agent rdf:about="http://id.loc.gov/rwo/agents/n84161742" >
          <rdf:type rdf:resource="http://id.loc.gov/ontologies/bibframe/Person" />
          <rdfs:label >Sparrow, Sara S.</rdfs:label>
        </bf:Agent>
      </bf:agent>
      <bf:role >
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          <rdfs:label >Contributor</rdfs:label>
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      </bf:role>
    </bf:Contribution>
  </bf:contribution>
</bf:Work>
```

Limitations of BIBFRAME

- The class Authority was removed from BIBFRAME in version 2.0 to avoid the incongruity of using Agent names as real-world objects
- With the application of RDA, authority records contain more data than just name:
 - Biographical and affiliation data
 - Agent Relationships
 - Identifiers in other systems
- The effect is that BIBFRAME does not have a structure to describe the data contained in authority records
- The solution proposed by BIBFRAME is to point to other Linked Open Data systems
 - The Polymath Virtual Library uses EDM for this purpose
- There are thousands of institutions that have authority catalogues, but they cannot afford:
 - the development of its own model
 - the substitution of one's own authority data for those of a third party, and in general
 - the loss of authority data in BIBFRAME
- A possible solution would be to expand the class Agent to express identification data, biographical data and relationships
 - In the same way as other vocabularies (e.g., Europeana Data Model, Wikidata or Schema.org) do, which allow this sets of data to be included in a single description.

Comparing Authority Data

LC Real World Object - complet

Vitoria, Francisco de, 1486?-1546

URI(s)

- <http://id.loc.gov/rwo/agents/n83011385> 

Is Identified By Authority

- <http://id.loc.gov/authorities/names/n83011385> 

- Birth Date

1486?

- Death Date

1546

Instance Of

- MADS/RDF RWO

- BF Person

- FOAF Person 

datos.bne.es (ontology of the BNE) – excerpt

Vitoria, Francisco de (1483-1546)

Año de nacimiento: 1483

Año de fallecimiento: 1546

Categoría profesional: Religiosos, Filósofos, Profesores, Economistas,

Lengua: Latín, Español

Digital Library of Castilla y León MARC 21 - excerpt

Vitoria, Francisco de, 1483-1546

Formato:

APLICAR

Exportar: 

Vitoria, Francisco de, 1483-1546

(Burgos, España, 1483 - Salamanca, España, 1546)

Apuntes biográficos/históricos

Sacerdote, maestro, jurisconsulto, teólogo, escritor y economista, respon: tomista como estudio obligatorio en las instituciones educativas en las q ingresó en la Orden de Santo Domingo y poco después, estudió Artes y Ti

▼ Ver más

Resumen biográfico extraído de Wikipedia:

Francisco de Vitoria (Burgos, 1483 o 1486-Salamanca, 12 de agosto) escritor y catedrático de la Escuela de Salamanca, quien se destacó en derecho internacional y la economía moral basados en el pensamiento aristotélicotomista.

Relaciones

Influye en:

Sepúlveda, Juan Ginés de, 1490-1573

EDM: loss of specificity in intellectual relationships

MARC XML and transformation to EDM

```
<datafield tag="500" ind1="1" ind2=" " >
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  <subfield code="i">Influye en</subfield>
  <subfield code="a">Casas, Bartolomé de las</subfield>
  <subfield code="d">1474-1566</subfield>
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  <subfield code="a">Hobbes, Thomas</subfield>
  <subfield code="d">1588-1679</subfield>
  <subfield code="4">http://dbpedia.org/property/influenced</subfield>
  <subfield code="w">rnnn</subfield>
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  <subfield code="4">http://dbpedia.org/property/trainer</subfield>
  <subfield code="w">rnnn</subfield>
</datafield>
```

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From MARC to BIBFRAME in a Hybrid Metadata
Ecosystem

- edm:Agent
 - skos:prefLabel
 - skos:altLabel
 - skos:note
 - dc:date
 - dc:identifier
 - dcterms:hasPart
 - dcterms:isPartOf
 - edm:begin
 - edm:end
 - edm:hasMet
 - **edm:isRelatedTo**
 - foaf:name
 - rdaGr2:biographicalInformation
 - rdaGr2:dateOfBirth
 - rdaGr2:dateOfDeath
 - rdaGr2:dateOfEstablishment
 - rdaGr2:dateOfTermination
 - rdaGr2:gender
 - rdaGr2:placeOfBirth
 - rdaGr2:placeOfDeath
 - rdaGr2:professionOrOccupation
 - owl:sameAs

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Relationships between persons

#		rdaa:P50274	"has colleague"
#		rdaa:P50275	"has assistant"
#		rdaa:P50276	"is assistant to"
#		rdaa:P50277	"has coworker"
#		rdaa:P50278	"has partner"
#		rdaa:P50279	"has fellow student"
#		rdaa:P50280	"has friend"
#		rdaa:P50281	"has student"
#		rdaa:P50282	"has teacher"

- 37X Field Data ☐
 - RDA Registry
 - Interpersonal and professional relationships
 - It is the ontology that comes closest to the needs of the BVP
 - MADS/RDF
 - hasRelatedAuthority
 - Schema.org
 - Family and social relationships
 - EDM
 - Generic relationships edm:isRelatedTo
 - DBpedia
 - Intellectual, family and interpersonal relationships
- Expressing Relationships Using 5XX \$i \$4
 - The development of its own model is not sustainable



PhiloBiblon: an example of migration to a Linked Open Data environment

- Bio-bibliographical database that collects texts written in the Romance languages of the Iberian Peninsula during the Middle Ages and the early Renaissance, dating back to 1975.
 - Catalan, Spanish, Galician, Portuguese
- Uses the FRBR WEMI model and the FactGrid ontology (Person)
 - Historical, open, and collaborative database based on Wikibase software

Item is a person

- all FactGrid items for persons [↗](#) (Q77478)
 - biographical core data [↗](#) (Q77486)
 - naming [↗](#) (Q77488)
 - genealogical information [↗](#) (Q77489)
 - education [↗](#) (Q100631)
 - career [↗](#) (Q77493)
 - degrees and titles [↗](#) (Q77492)
 - affiliations [↗](#) (Q77494)
 - personal networks [↗](#) (Q77490)
 - track the person geographically and on events [↗](#) (Q77487)
 - possessions [↗](#) (Q77491)
 - works [↗](#) (Q77495)

Description for Arnau de Vilanova in PhiloBiblon/FactGrid



Arnau de Vilanova (Q1076054)

* 1240 (circa), † 1311, physician and alchemist of Crown of Aragon

Arnaldus Villanovanus | Arnau de Villanova | Arnaldus de Villa Nova | Arnaud de Ville-Neuve | Arnaud de Ville Neuve | Arnau de Vilanova

▼ In more languages

Configure

Language	Label	Description	Also known as
English	Arnau de Vilanova	* 1240 (circa), † 1311, physician and alchemist of Crown of Aragon	Arnaldus Villanovanus Arnau de Villanova Arnaldus de Villa Nova Arnaud de Ville-Neuve Arnaud de Ville Neuve Arnau de Vilanova
Spanish	Arnaldo de Villanueva	* 1240 (circa), † 1311, médico	BETA bioid 1363 Arnaldus de Villa Nova Arnaldus de Villanueva Arnaldus Villanovanus Arnaldo de villanueva Arnaud de Ville-Neuve Arnaldo de Vilanova Arnaud de Ville Neuve Arnau de Villanova Arnaldo de Villanova

All entered languages



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From MARC to BIBFRAME in a Hybrid Metadata

Ecosystem



Universitat
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Barcelona

Authority record display in the Polymath Virtual Library



▼ Ver más

Relaciones

Autor:

Arnau de Vilanova, Aproximadamente 1240-1311. Tractatus de humido radicali. Latin

Influído por:

Galeno

Ibn Sīnā, Al-Ḥusayn b. 'Abd Allāh, 980-1037

Oponente:

Averroes, 1126-1198

Relacionado con:

Blaise, Armengaud, Aproximadamente 1264-1312?

Martí, Ramon, 1220/1230 - aproximadamente 1286

Traductor:

Ibn Sīnā, Al-Ḥusayn b. 'Abd Allāh, 980-1037. Al-adwiya al qalbiyya

Arnau de Vilanova, Aproximadamente 1240-1311

(Villanueva de Jiloca?, Valencia, España, Aproximadamente 1240 - Génova, Italia, 1311)

Polígrafista: Polígrafista no asignado aún. Si está interesado/a en participar diríjase a info@larramendi.es

Apuntes biográficos/históricos

Médico, escritor y reformista catalán. Cursó sus estudios en Nápoles y Montpellier, donde se graduó en medicina. Considerado uno de los mejores médicos de la Edad Media occidental, representa una figura de gran atractivo cuyos conocimientos abarcan desde l...

Búsquedas en el catálogo

Obras como autor

Obras sobre esta persona

Obras en las que colabora

Todas las obras relacionadas

Campo de Actividad

Medicina

Teología

Filosofía medieval

Política

Corte y cortesanos

Ocupación

Literatos

Médicos

Lengua asociada

Catalán

Latín

Árabe

Género

Hombre

The Polymath Virtual Library Environment

- Standard environment
 - Obviously, without a broad set of standards, the Polymath Virtual Library is not sustainable
- Hybrid environment of coexistence of different metadata schemes and/or ontologies
 - The same data must be able to be expressed in different models, suitable for different environments (e.g., basic record sharing and interoperability, metadata harvesting, Linked Open Data).
 - Cataloguing only once (experience of institutional repositories with two work environments, MARC 21 and Dublin Core)
 - Ensure interoperability (and visibility) across environments
- BIBFRAME Adoption
 - Ready to take on BIBFRAME for cataloguing
 - Be already familiar with the expression of bibliographic data in the form of triplets
 - Be already familiar with the data entry templates in the BIBFRAME environment
- Linked Data environment
 - Developed Data Enrichment Practices in Authority Records

What MARVA has been useful for

- Establish where the Polymath Virtual Library is in the process of migration to BIBFRAME
- The FIL had already assumed many cataloguing practices typical of a Linked Open Data environment, although in BIBFRAME have greater intensity.
- Improve cataloging in RDA, affects both BIBFRAME and MARC 21
 - Assume the distinction, and interrelation, between Works and Manifestations
 - Rethinking fields in a bibliographic record as works properties or instance properties
 - Author-Title Authority Records □ Works
 - Bibliographic records □ Work and Instances
 - Cataloguing digital versions as instances (standard FIL practice)
- Use of MARC Code Lists Expression
 - Lists only available in English, although there are different translations and examples of use in other languages not Linked Data
 - Translated lists can only be used as text
 - These lists of values are machine-readable, but not by humans in language environments outside of English
 - Need for Multilingual Code Lists

Expression of [search for a Hub]
Expression of [search for a Hub]

Creator of Work

Person
Search LCNAP

Relationship designator

Title information

Work title
Non-sort character count

0

Preferred title for Work

At the Origins of Modernity : Francisco de Vitoria and the Discovery of International Law

Part number

Part name

Contributors

Person

Beneyto, José María

Relationship designator(s)

editor

Contributors

Person

Corti Varela, Justo

Relationship designator(s)

editor

Notes about the Work

Note

Note type

Contents

Contents note

Chapter 1. Introduction: Francisco de Vitoria and the Origins of the Modern Global Order, Anthony Pagden -- Chapter 2. From the "imago Dei" to the "bon sauvage": Francisco de Vitoria and the Natural Law School, Franco Todescan.- Chapter 3. The Sovereignty of Law in the Works of Francisco de Vitoria, Simona Langella -- Chapter 4. Vitoria, the common good and the limits of political power, André Azevedo Alves.- Chapter 5. The problem of Eurocentrism in the thought of Francisco de Vitoria, Andrew Fitzmaurice -- Chapter 6. On the Spanish founding father of modern international law: Camilo Barcia Trelles(1888-1977),Yolanda Gamarra -- Chapter 7. Francisco de Vitoria on the "just war": brief notes and remarks, Mauro Mantovani -- Chapter 8 . Prevention and intervention in Francisco de Vitoria's theory of the just war, Francisco Castilla Urbano -- Chapter 9. Francisco de Vitoria on self-defence, killing innocents and the limits of "double effect", Jörg Alejandro Iellkamp -- Chapter 10. Francisco de Vitoria

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Delete Instance?

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Title information

Instance title
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Title

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Part number

Part name

Other title information

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Statement of responsibility

edited by José María Beneyto, Justo Corti Varela

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Edition statement

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From MARC to BIBFRAME in a Hybrid Metadata Ecosystem

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Difficulties in the application of BIBFRAME

- Although defined as agnostic with respect to cataloguing rules, BIBFRAME has a strong interrelationship with RDA
 - Why not use RDA Registry directly?
- Does not model the class Agent, nor its subclasses □ modeling must be done outside of BIBFRAME
 - Authority records will remain in MARC 21 much longer than bibliographic records, especially outside the cataloging scope of the Program for Cooperative Cataloging (PCC)
 - It will be an impediment to make the transition to BIBFRAME
- Monolingual Controlled Value Lists
 - Greater collaboration is needed so that these lists of values are multilingual and can be used directly in cataloguing in language environments other than English

Next steps

- Continue direct cataloging in MARC (Modern MARC)
 - All internal transformations (from MARC to DC, to EDM, and MARC 21 serializations) are performed on top of MARC 21
 - Establish cataloging practices for a correct conversion to BIBFRAME
 - Bulk data modifications prior to conversion to BIBFRAME (own transformation rules)
- Provide bibliographic data in BIBFRAME
 - Integrate BIBFRAME conversion rules to deliver:
 - New data download mode, similar to the current EDM/RDF
 - Creating a Specific Format for the OAI-PMH Repository

Thank you very much

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