



DIGICLIC

Information about enriched digitization,
software for Libraries, Archives
and Museums and international standards.

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best LOD menu**

UPDATES TO

DIGIBIB® 10

HAVE ALREADY BEGUN

More visibility

More functionalities

More adaptability

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DIGICLIC

DIGIBIS® Newsletter

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DIGIBIB 10: the new update has already begun to be implemented

As announced in the previous DIGICLIC issue, DIGIBÍS has updated its virtual or digital library management programme to version 10, which in turn includes, as always, the updated international standards: MARC, METS, EDM, etc. Last year, it was implemented in the Polymath Virtual Library of the Ignacio Larramendi Foundation, which, as is almost always the case, serves as a *testbed* for our updates.

Highly complex implementations..

In the same DIGICLIC issue, we dedicated a page to comment on the most relevant developments of this new version and now we can announce the update of DIGIBIB 10 in Galiciana-Digital Library of Galicia and in the Documentation Centre of the MAPFRE Foundation, and it is also being implemented in other libraries.

It is important to note that this step requires a great deal of effort given the complexity of DIGIBIB's functionalities and, above all, the almost infinite variety of computing environments where the update must be carried out.

Different database environments, with different versions, different programming languages, different telecommunication configurations, etc., require very important customization. In addition, many libraries have customized interfaces for their websites, making the issue even more complex. Sometimes, it means rewriting quite a few lines of code and all sorts of phrases.

DIGIBÍS will be implementing the DIGIBIB programme in its version 10 throughout 2020

... to adapt the new functionalities from DIGIBIB 10 to all types of digital libraries

In any case, DIGIBÍS will be updating the DIGIBIB programme to version 10 in all the institutions that have it throughout 2020, so that they can use the new functionalities as the libraries reviewed in the central pages of this DIGICLIC already do. ■



Europeana's General Assembly in Lisbon

The Annual Meeting of Europeana 2019 took place in Lisbon from 27 to 29 November 2019, under the “Connect Communities” theme, within which Europeana’s General Assembly was held.

The General Assembly was chaired by Marco de Niet, who welcomed those attending. In turn, Georgia Angelaki, Deputy Chairman of the Management Board, presented the 2019 Annual Report (Association Annual Report) and summarized this year’s achievements and challenges, highlighting the important role of communities in Europeana and the relevance of the cultural sector in general, or in very special areas such as climate change.

The 2020 Business Plan was presented by Erwin Verbruggen, and the finances by Frederik Truyen. Sara de Giorgio was in charge of inviting the members to evaluate, by means of a vote, the documents presented to the Assembly; a vote that resulted in 86% positive votes.

As in previous meetings, these meetings serve to disseminate those aspects in which Europeana is working hardest, whether from the point of view of objectives or from technological aspects. Frédéric Kaplan and Michael Edson spoke at their

conferences about how technology will change the future of cultural heritage; while the workshops dealt with the impact of cultural heritage on audiences and institutions, the use of digital cultural heritage in education, including eLearning, and the rights or *copyright* of digital heritage in education and research.

Other topics were IIIF (International Image Interoperability Framework), which is one of the standards in which Europeana is most interested and active in, multilingual access, inclusion and diversity. 3D technology, one of the most marked trends in digitization in recent years, was also the subject of a specific seminar. As on other occasions, these meetings are designed to allow those attending to present their projects and discuss different issues, usually focused on the different sub-projects and working groups of Europeana, as well as to provide the national aggregators of Europeana with a specialised forum.

Finally, the conferences of this Europeana 2019 Annual Meeting can be viewed on YouTube by anyone that is interested. We provide the direct links for those who are reading this DIGICLIC in electronic format: [day one](#), [day two](#) and [day three](#). ■

Digibib 10 is updated to the highest level of the EDM TIER

In 2019, Europeana set quality standards for both digital content and metadata. These levels, called TIER, are included in the so-called **Europeana Publishing Framework**.

In order to reach the highest level established in TIER, DIGIBIS has updated its *software* to EDM (Europeana Data Model) v5.2.8. The changes for this update have been divided into three parts:

- To comply with CONTENT requirements: generation, for all records with digital content, edm:object, edm:isShownAt and edm:isShownBy. In previous versions the three were not being generated at the same time, since it was not mandatory.
- To meet the METADATA requirements: inclusion in the *Relevant metadata elements* records with their corresponding language qualifier and inclusion of the *Enabling elements* defined by Europeana.

- Re-sorting of the EDM classes and properties, following the indications established by Europeana in the "Mapping Guidelines v2.4" document; inclusion of the edm:intermediateProvider at repository level; and inclusion of the contextual class cc:License.

With these changes, the new versions are updated to EDM v5.2.8 and have the necessary technical level to reach the desired TIER level. The records may reach one level or another depending on the development of the records, the quality of their images and the license used.

In this way, DIGIBÍS will keep its libraries and files visible and harvestable, maintaining their high quality and functionality. ■

Summary table on digital content, included in the "**Publishing Framework**" entry, where a table for metadata is also given.

Europeana Publishing Framework: Content				
Here you see how the different content tiers of the Publishing Framework work. In this example, we use images. For video, audio, text and 3D, please see the Europeana Publishing Guide.				
TIER	DIRECT LINK TO OBJECT PROVIDED	RIGHTS STATEMENTS	EUROPEANA API DISPLAYS	BENEFITS (CUMULATIVE)
1 Europeana as a search engine . 'I want to search and browse collections online.'	Yes. Minimum of 0.1 megapixel in size	Any from the Europeana licensing Framework	Metadata plus direct link to object	Findability - indexed by search engines, linked data technology Web traffic - click-throughs to your site
2 Europeana as a showcase . 'I want to be guided through collections online.'	Yes. Minimum of 0.42 megapixel in size	Any from the Europeana licensing Framework	Metadata plus direct link to object	Use in thematic collections - providing context and relation to other collections on Europeana More marketing through Europeana
3 Europeana as a distribution platform for non-commercial reuse. 'I want to find, view and use collections in my own non-commercial projects.'	Yes. Minimum of 0.95 megapixel in size	Any from the Europeana licensing framework that allow for some re-use	Metadata plus direct link to object and can filter to show only re-usable objects	Impressions - collections viewed on platforms outside of Europeana Use in Europeana's existing partnerships and projects in e.g. education and research Use in apps and services by third parties
4 Europeana as a free reuse platform . 'I want to find, view and use collections in whatever way I choose.'	Yes. Minimum of 0.95 megapixel in size	Any from the Europeana licensing framework that allow free re-use	Metadata plus direct link to object and can filter to show only re-usable objects	Use on open platforms like Wikimedia Use by creative industry Use in commercial apps and services.

The Archive of the Felipe González Foundation in Hispana

The Archive of the Felipe González Foundation was harvested by Hispana in October 2019. This is the second digital file, implemented on the DIGIARCH software, which has been harvested by our national aggregator. In this way, the 3,647 records available in the digital archive of this Foundation are accessible in Hispana, which is, in turn, harvested by Europeana.

The Archive of the Felipe González Foundation houses both graphic and textual material, from notebooks, manuscripts and photographs of the former president's political work, to correspondence and videos created by the Foundation.

Conceived as a "civic memory", this archive is an example of an effort to promote transparency and the dissemination of political memory. From the outset, the Foundation has been committed to digital content and technological innovation for its archives, which led to the choice of the DIGIARCH programme, of which DIGIBÍS is proud. This careful, meditated choice now allows the Foundation to be present in Hispana and, in the near future, in Europeana. DIGIARCH is DIGIBÍS' specific software for the description and dissemination of

archival documentation. It allows several archives to be integrated, as happens in the network of 54 archives that make up the Digital Archives of Galicia, or to be installed in a single institution, as it is the case of the Archive of the Felipe González Foundation. DIGIARCH is compliant with archival standards and metadata –ISDIAH, ISAD(G), ISAAR(CPF), EAD3, EAC-CPF– and generic standards –METS, ALTO, PREMIS, EDM 5.2.8 (European Data Model) and LOD–.

In addition, DIGIARCH has an OAI-PMH repository that is updated in a totally automatic and transparent way for the user –and it is the one that allows the records of these files to be harvested by Hispana or any other metadata aggregation system that complies with the aforementioned OAI-PMH protocol–, without the institution being forced to have a double maintenance of the data.

In this way, the documents and digital objects that the Felipe González Foundation is gradually publishing in its daily work will be available in its repository and can be harvested by Hispana, without any additional effort by the Foundation. ■

The screenshot displays the Hispana interface for the Felipe González Foundation archive. The top navigation bar includes 'Presentación', 'Cuadro de clasificación', 'Búsqueda', 'Acceso y uso', and 'Participa'. A search bar on the right contains the text 'Felipe González interviene en un mitin del PSOE en la Plaza de Toros de Las Ventas'. The main content area shows the search results, including a list of records and a detailed view of a specific record. The record details include the title, description, date of creation, and other metadata. A sidebar on the left shows the archive's structure, including 'ARCHIVO FUNDACIÓN FELIPE GONZÁLEZ', 'ARCHIVO PERSONAL', 'ARCHIVO POLÍTICA', 'ARCHIVO PROFESIONAL', 'ARCHIVO AUDIOVISUAL', and 'ARCHIVO MANUSCRITOS'.

Galiciana has been updated to DIGIBIB version 10

Galiciana-Digital Library of Galicia has been another of the digital or virtual libraries that has seen its version updated in the DIGIBIB management system.

In this version 10, the search of the website has been extended and improved. Firstly, the main search box always remains visible and accessible from any point in the navigation. The simple search form allows the user, by means of a *check*, to move one or more terms to the full text of the documents, or to restrict them to only the digitized documents.

The user therefore has full control over these powerful DIGIBIB functionalities at all times: the full text search of documents and the search for digitized documents. This last functionality is especially interesting when a digital library, as is the case of the Digital Library of Galicia, merges two sets of data: those of the Digital Library and those of the Union Catalogue of Bibliographic Heritage. Access to images has also been improved with a modernised, cleaner and more compact viewer.

The values of the drop-down menus that appear in the form have been sorted and both a catalogue search field, if there are several, and a geographical location search field, by country, community, province and town can be added to the form. In the bibliographic records, in the tabular view, the rights of the works licence has been given more visibility.

Galiciana is one of the virtual libraries that most exploits the resources available to the DIGIBIB application. Thanks to the OAI-PMH repository, its works are harvested and displayed at regional level in Galiciana, Digital Heritage of Galicia, which also harvests documents from Galician historical archives, as well as in Hispana and Europeana. We cannot forget that EDM is constantly updated and DIGIBÍS, as we have shared in this issue, strives to keep its programmes in line with the latest regulations so

that the virtual libraries that run on DIGIBIB have maximum dissemination and visibility. ■



From top to bottom: Excerpt from the Consultation form of the Digital Library. Viewer appearance with one of the images from the archive and home page of the Union Catalogue of Bibliographic Heritage.

The Digital Library of Valencia, (BIVALDI) renews its website

BIVALDI, the Digital Library of Valencia, implemented on the DIGIBIB application, has updated its system to version 10.

The update has provided the library with new technological functionalities and has meant a customization of the design of its interface. The new image carousel stands out at first sight.

With this new version, the accessibility and usability of the website has been improved. Navigation is more comfortable and practical for the user, who will now always have a search box that can be seen at the top, under the website's header, which can be used at any time during navigation. In the Newspaper Library, which has an important collection and some peculiarities in the search, you can search by date or title more

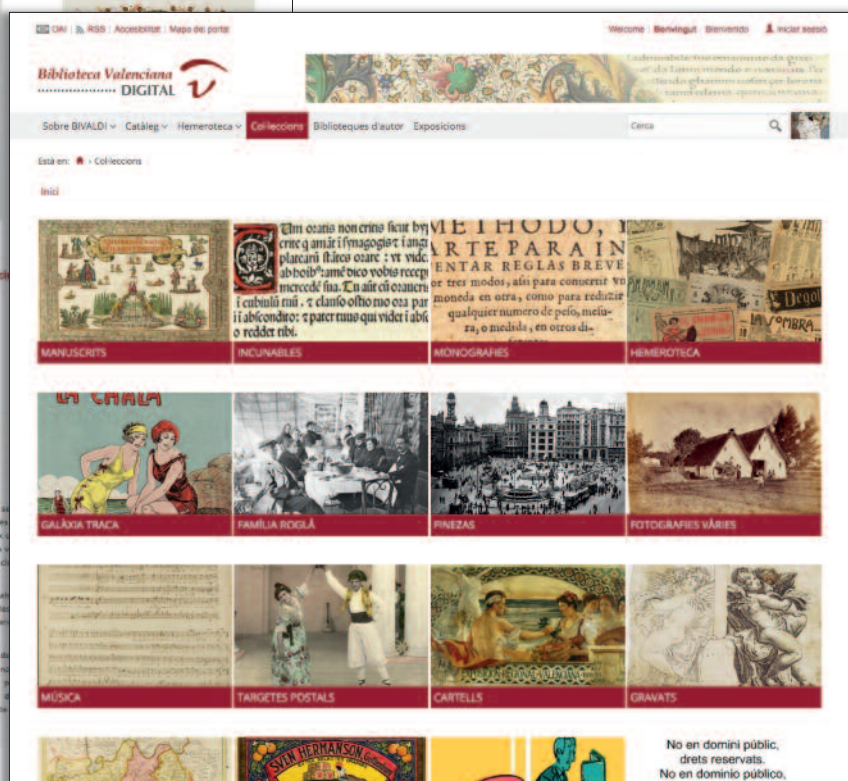
easily. Internally, the content management has been improved, with new texts that can now be edited by the administrator and there is direct access to manage news.

BIVALDI wanted to take advantage of this update to renew its website, expanding its content with new author libraries, more exhibitions and virtual collections. It has also made an effort to improve the servers and HTTP protocols that allow the user to have a better experience, as response times to queries have been reduced.

Like all DIGIBIS applications, BIVALDI has an OAI-PMH repository, thanks to which it can be harvested and be present in Hispana, the national aggregator, and in Europeana, the European aggregator. ■



On the left, an excerpt from the BIVALDI home page, where the image carousel can be seen. Below, an excerpt from the page from which you can directly access its various collections.



Collections of San Millán monastery in the Virtual Library of La Rioja

On 12 November 2019, the patron saint day of San Millán, the **Virtual Library of La Rioja** (BiVirLa) published the **San Millán Library** micro-site, dedicated to the Library of the monastery of San Millán de la Cogolla.

The micro-site gives access to a total of 96,375 images and 170 works, including manuscripts, maps and old monographs, most of which are collections in the Monastery's library. Also included are works that study these texts or that are related to the San Millán library. In this way, one can read some documents about the history of the library itself, of the monastery, of Santo Millán (born Emiliano, hence the name), of the San Millán Foundation, and even a text about the life of the copyists.

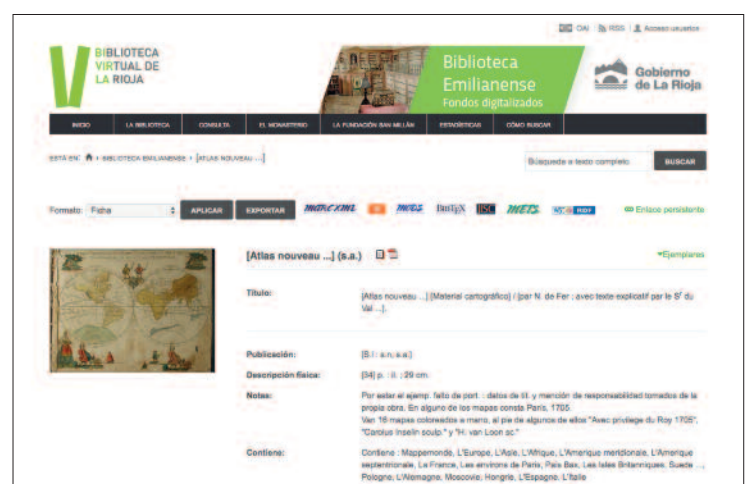
As they tell us in this wonderful digital library: "The greatness of the San Millán Library is due more to the merit of some of the works it holds than to the number of volumes it contains, and it is but an example of the culture and spirituality of the San Millán Abbey itself".

The Virtual Library of La Rioja uses the DIGIBIB application, on which this and other micro-sites have been created, thanks to a specific module of this application for the creation of subsets of bibliographic records or authority records.

The copies, in turn, began to be digitized in 2001, and the resulting copies were delivered to DIGIBÍS for their complete digital edition. In DIGIBÍS they were paged, an OCR (Optical Character Recognition) process was performed and the necessary metadata was generated for automatic aggregation to Hispana, Europeana and WorldCat.

BiVirLa currently offers five micro-sites, all of them implemented in DIGIBIB: the one just mentioned, dedicated to the San Millán Library, and those dedicated to the Institute of Studies of La Rioja, the Library of La Rioja, to the IES Práxedes Mateo Sagasta and Ildefonso Zubía. Only the great

work of content creation that the BiVirLa team does on the functionalities of DIGIBIB remains to be highlighted. ■



From top to bottom: aspects of the library home page, micro-site home page and a result.

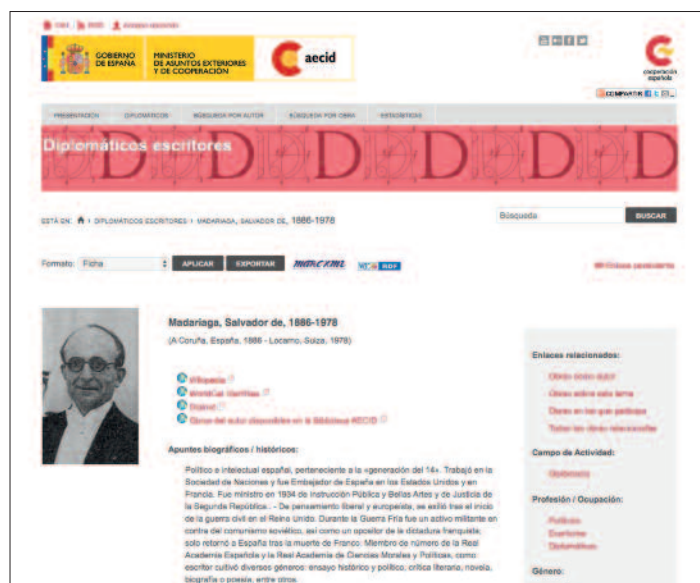
The AECID presents the "Diplomatic writers" micro-site

On 10 October 2019, the Digital Library of the Spanish Agency for International Development Cooperation (AECID in Spanish) presented the incorporation of a new micro-site to its website: "Diplomatic writers." The presentation was given by Araceli García Martín, Director of the AECID Library, and was attended by Alicia Arés, co-editor of the book collection *La valija diplomática*, the Marquis of Tamarón and Fernando Fernández-Arias, Director of the Diplomatic School.

Cutting edge technology

This is the seventh micro-site that the AECID incorporates into its virtual library, implemented in our DIGIBIB management system. In this specific case, the AECID has made use of the Authority's Micro-site Management module, as Araceli García Martín commented in the presentation. With this, bibliographic records have been added present in the virtual library, selected from authority records, in this case from diplomats who also acted as writers. With this DIGIBIB module, Author's Libraries can be formed according to different criteria, in the same way as happens in the Polymath Virtual Library of the Ignacio Larramendi Foundation. It is not in vain that the Polymath Virtual Library acts as a great technological laboratory where new functionalities and updates are developed and tested, which are later incorporated into successive versions of DIGIBIB.

In addition, the AECID Library has semantically enriched the authority records of diplomatic writers thanks to the fact that DIGIBIS applications make use of Linked Open Data (LOD) technology and the Europeana Data Model 5.2.8. All this allows each author to be identified by a permanent link (an HTTP URI) and to be linked to a plurality of linked open data sources, such as VIAF, datos.bne.es, DBpedia, Library of Congress



Linked Data Service, Wikidata or FAST. Through the use of this technology, the AECID Library is able to increase the visibility of the collection and facilitate the location of resources in Hispana, Europeana and WorldCat. And, of course, follow the recommendations of Linked Open Data and Europeana.

Diplomatic writers micro-site

The micro-site has a search by works and a search by authors from which diplomats can be located using different criteria, such as their occupation, activity, related place and dates of birth or death.

As indicated by Sergio Colina Martín on the micro-site's homepage: "We now present a digital repository of diplomatic writers, almost all of them polymaths, who have written fiction, essays on foreign policy or international relations, articles in the press, literary criticism, film reviews, history or law books, memoirs, biographies or autobiographies... In short, all kinds of texts that the AECID wishes to make available to the public and the research community through this own space within its Digital Library. ■

The MAPFRE Documentation Centre updated to DIGIBIB 10

The MAPFRE Documentation Centre, which uses DIGIBIB for the physical and digital management of its library, updated its version to version 10 at the end of November 2019.

This new version, which we already discussed in issue 20 of DIGICLIC, incorporates numerous improvements both internally, for the user who works with the programme, and for the end user who accesses it from the website.

The MAPFRE Documentation Centre maintains a clean, simple website, to which a new image carousel has been added to give the image a more prominent role. In this graphic line, the user always has the main menu items visible and can reclaim them at any time.

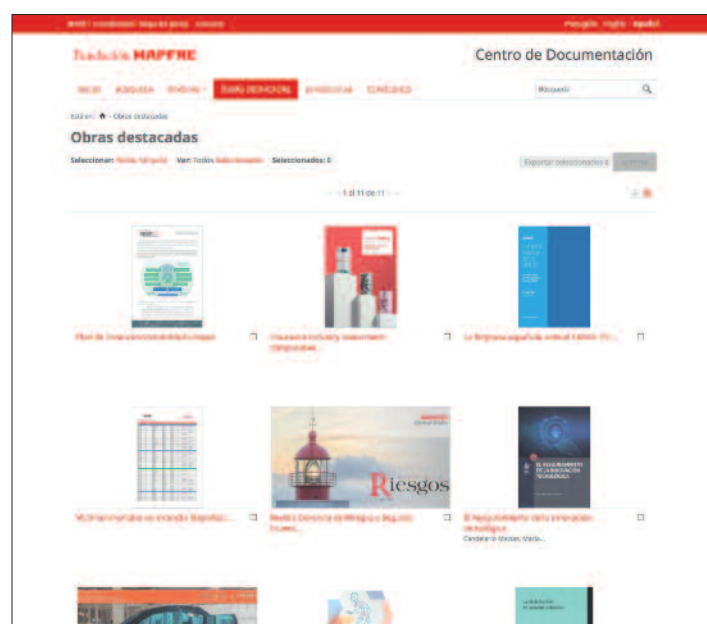
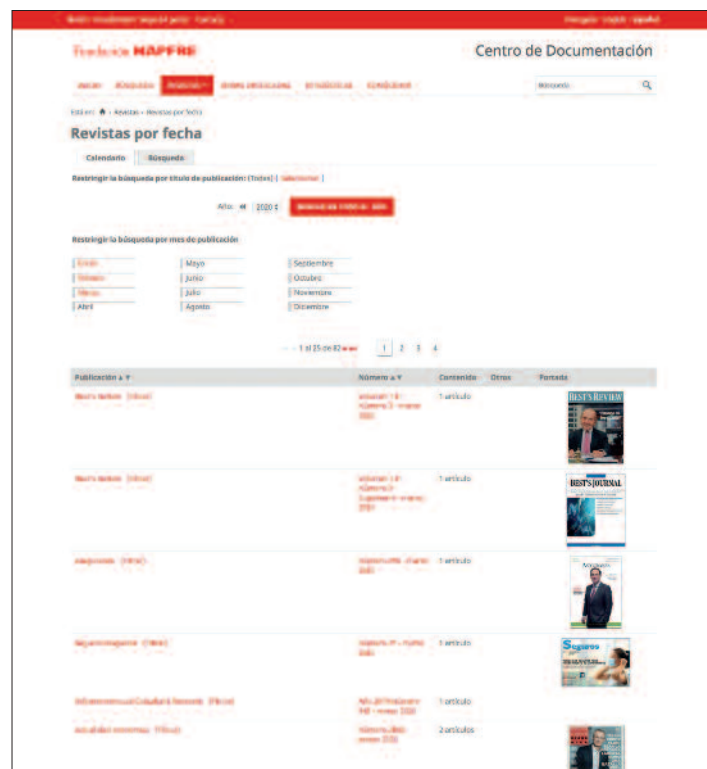
In version 10, DIGIBIB has introduced several control and security measures, which are particularly interesting for the MAPFRE Documentation Centre. In this way, DIGIBIB complies with the Organic Law on Data Protection (LOPD) and includes an optional module for restricted digital document room consultation, by managing access from controlled IP addresses.

In the same vein, control over the public visibility of the copies has been improved by adding different publication statuses to the Website for the collection and location records.

This DIGIBIB functionality responds to the needs of institutions such as the MAPFRE Documentation Centre that manage publications with different levels of access and also to the incorporation of union catalogues of bibliographic heritage, which may also require control of access to certain copies.

The sections and subsections –also called collections– in which DIGIBIB organises the information, have been improved, allowing those that should be visible to the public to be selected, as has also been done with the lists of recommended works, which also have the option of being visible or not on the website.

Finally, we would like to point out that the versions of MARC 21 (update 26) for bibliographic, authority and copy records, and of MODS, have been updated to version 3.7. ■



From top to bottom, two fragments of pages from the website: "Magazines by Dates" and "Highlights".

New digitization campaign for the Digital Library of Castilla y León

In October 2019, DIGIBÍS was awarded the Service to create Digital Resources and Optical Character Recognition by the Regional Government of Castilla y León.

In this way, DIGIBÍS will be in charge of carrying out the new digitization campaign for this Community's collections, which includes digitization, OCR (optical character recognition) processes and generation of the different sets of metadata: METS, PREMIS, MetsRights, MIX, MARCXML, DC, ALTO, MADS, MODS, among others, in order to preserve and disseminate the digitized works. All of them will also be validated with JHOVE object validation software.

Currently, the Digital Library of Castilla y León houses more than 26,000 works, giving access to more than 4 million images, which correspond to more than 186,000 copies amongst which are manuscripts, prints, issues of periodicals, graphic material, scores and sound archives.

The new campaign will begin in the Public Library of Soria

This new digitization campaign will begin in the Public Library of Soria, which has magnificent collections, and will be divided into 3 phases distributed between 2019 and 2021. At the end of this campaign, the Digital Library of Castilla y León will increase its volume by more than half a million images.

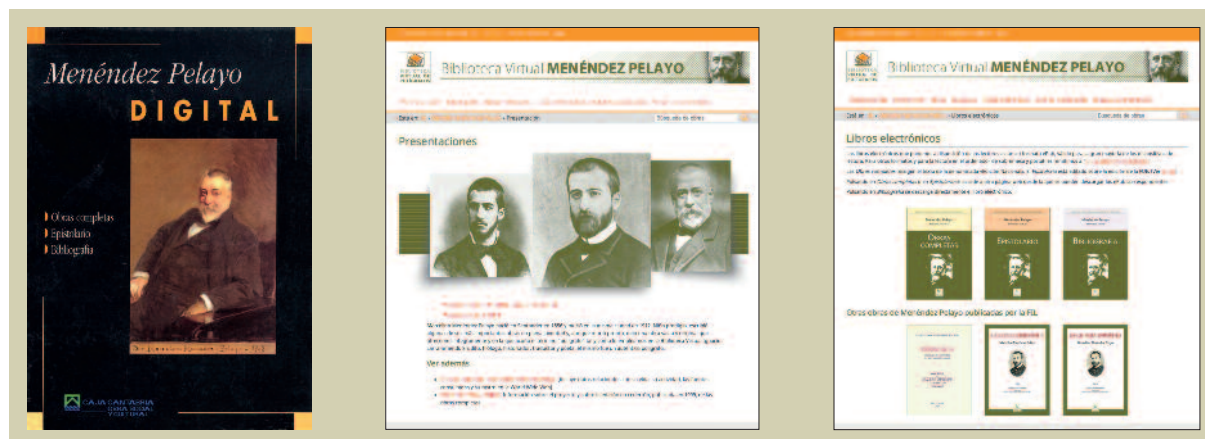
This well-prepared virtual library has the DIGIBIB Archive Module, used for the Archive of the Salamanca-based writer Carmen Martín Gaité, and offers an interesting micro-site dedicated to authors and places in Castilla y León in Linked Open Data, which is noteworthy for being part of the control of Wikidata authorities through the "BDCYL authority ID (P3964)" property, or what is the same "identifier of an author, subject or place in the Digital Library of Castilla y León".

Thanks to DIGIBIB's OAI-PMH repository, its records are present in Hispana and Europeana, and can be harvested by aggregation systems that use the same OAI protocol, such as OCLC's OAIster, and with this, in WorldCat. ■



Records of two of the digitized books for the Digital Library of Castilla y León.

“Menéndez Pelayo Digital” was presented twenty years ago



On 20 October, 2019, the 20th anniversary of the publication and presentation of Menéndez Pelayo Digital was celebrated: a free text compilation of all the works of the great polymath Marcelino Menéndez Pelayo, commissioned by the Hernando de Larramendi Foundation, now the Ignacio Larramendi Foundation, to its subsidiary DIGIBÍS.

Sponsored by **Ignacio Hernando de Larramendi** and supported by **Xavier Agenjo Bullón**, then director of the Menéndez Pelayo Library, and under the technical direction of **Tachi Hernando de Larramendi**, general director of DIGIBÍS, this work was a pioneer in its genre and has remained one of the most interesting and complete projects in digital text editing for many years.

It was a meticulous edition, which started with the so-called “National Edition”, a publication of the complete work of Menéndez Pelayo carried out by the CSIC, a work of enormous importance for Spanish historiography, to which were added the digital edition of the magnificent Bibliography, prepared by Amancio Labandeira Fernández, Jerónimo Herrera Navarro and Julio Escribano Hernández, and the *Epistolario*, based on the 22 volumes published between 1982 and 1990 by the Spanish University Foundation.

With this digital edition, not only could the text be read and consulted, but specialists and scholars

could save precious time in their research and academic work, thanks to the search functionalities.

It was published in CD-ROM format, the most widespread at the end of the last century, and would later be published in full text on the Website. It is currently available on the micro-site dedicated to this famous author: the **Menéndez Pelayo Virtual Library**.

This Virtual Library was the basis of the current **Polymath Virtual Library**, within which is now located the aforementioned micro-site, to which Ignacio Hernando de Larramendi dedicated so much effort.

New critical edition of “La ciencia española”

To commemorate this 20th anniversary in December, the Ignacio Larramendi Foundation published a critical edition in two volumes of *La ciencia española* work. The polymaths **Gerardo Bolado** and **Víctor Navarro Brotóns** have been in charge of it. The edition is completed by a prologue by **Luis Hernando de Larramendi**, chairman of the Ignacio Larramendi Foundation, and a preface by Xavier Agenjo Bullón, Project director for the Foundation.

One of Ignacio Hernando de Larramendi’s *leit-motifs* was the dissemination of culture and, therefore, these two volumes can be consulted and downloaded in various formats (PDF, EPUB, MOBI), free of charge, from the **Electronic Books** page of the Polymath Virtual Library. ■

Novatores: link between Bar

On 30 October 2019, the [Virtual Library of Novatores](#) was presented at the Royal Academy of Doctors of Spain (RADE in Spanish), located in Madrid. This is a new thematic library of the Polymath Virtual Library, which has been a joint effort of the MAPFRE Foundation and the Ignacio Larramendi Foundation. José Javier Etayo, Secretary General of RADE, Antonio Huertas, Chairman of the MAPFRE Group; Antonio Bascones, Chairman of RADE; Luis Hernando de Larramendi, Chairman of the Ignacio Larramendi Foundation; and Xavier Agenjo, Project Director of this aforementioned foundation, all took part in the event.

The presentation

The event was opened and chaired by Antonio Bascones, chairman of RADE, who, as did all the speakers, drew attention to the lack of knowledge in Spain about these authentic polymaths from the late 17th and early 18th centuries, which were disparagingly referred to in their time as “*novatores*”. These “*novatores*”, who opened the field of science and humanities to the new European currents at a time of cultural crisis in Spain, confronted those who saw a danger in their opening and received the exacerbated criticism of those who called them by that name.

Antonio Huertas, Chairman of the MAPFRE Foundation, then spoke. He recalled that it was his third personal participation in the presentation of a Virtual Library of the Ignacio Larramendi Foundation, a project that has always interested him and that MAPFRE has been supporting for a long time. He also remembered Ignacio Hernando de Larramendi, whose concerns and interests as a businessman and man of culture not only made MAPFRE the powerful company it is still today, but also took it beyond its business activity. He was proud that the two Foundations have worked to make the work of the *novatores* available to the

public free of charge and pointed out that this type of work contributes to a better understanding of our history and thus to the creation of a more mature society.

Luis Hernando de Larramendi, chairman of the Ignacio Larramendi Foundation, was very grateful for the words of Antonio Huertas and for the support of the MAPFRE Foundation, as well as for the magnificent reception of the event by the Royal Academy of Doctors of Spain. He did not want to forget the great technological work carried out by DIGIBÍS in these libraries, with his sister Tachi Hernando de Larramendi at the head, as general director. He pointed out that in works such as this, which fill a cultural gap in the knowledge we have of Spain's history, new technologies can decisively help to disseminate it and, with this, the Foundation fulfils its commitment to disseminate it. This virtual library, being made up of such important and yet so unknown authors, is a clear example of that commitment.

The Virtual Library rescues the works of the authors and the authors themselves from being unknown

The Polymath Virtual Library, with its virtual thematic and author libraries –in addition to the biographical and bibliographical information it provides on almost 900 Spanish, Portuguese and Latin American polymaths– rescues the works of the authors and the authors themselves from being unknown, organises the information and relates it to each other, so that we can see some of the links the authors had with each other, as well as with their works. In short, it offers reliable resources and makes the works accessible on the Website, either through its own digitization carried out by DIGIBÍS, or through links to third parties from bibliographic and authority records.

Luis Hernando de Larramendi ended his speech by recalling the beginnings of all these

oque and Enlightened Science

projects, at the end of the 1980s, when his father began to set them up in the face of the incredulity of those around him: a company dedicated to digitizing Spain's intellectual heritage to make it accessible with new technologies seemed impossible to overcome.

Virtual Library of *Novatores*

Xavier Agenjo, Project Director of the Larramendi Foundation, recalled the anniversary of the Menéndez Pelayo Digital project, which we talked about in another news item in this DIGICLIC, and the launch of the Polymath Virtual Library itself.

The *Novatores* Virtual Library, contextualized, covers the historical stage between the Virtual Library of Science and Technology in American Enterprise and the Library of the Enlightened Science Travellers.

The authors that make up this new virtual library, explained Agenjo, are the beginning of Spain's connection with the Enlightened Europe. The works of their authors are, in many cases, difficult to locate and are scattered in libraries around the world, especially in Europe. The Virtual Library of *Novatores* has gathered all the works that have already been digitized and has grouped them together and made them available to everyone in this Virtual Library of *Novatores*.

Like all the Virtual Libraries of the Ignacio Larramendi Foundation, the Virtual Library of *Novatores* has one of the most advanced technologies in our country, thanks to the DIGIBIB application, which allows it to adapt to the rigorous European and global formats and standards on cultural and bibliographic heritage (EDM and RDA), as well as the Website standards, which are increasingly in demand and widespread, with the application of Linked Open Data technology. In this way, all the works in this virtual library become more visible, because this technology allows records to be automatically added in

Hispana and through it into Europeana, the great European library, as well as into WorldCat, the world's largest catalogue. ■



Home page of the Virtual Library of *Novatores*, configured as a micro-site of the Polymath Virtual Library.



The members of the presentation table: José Javier Etayo, General Secretary of RADE, Antonio Huertas, Chairman of the MAPFRE Foundation, Antonio Bascones, Chairman of RADE, Luis Hernando de Larramendi, Chairman of IDF, and Xavier Agenjo, Project Director of IDF.

New AENOR certification

Once again this year, we are pleased to announce that DIGIBÍS received, in December 2019, the certification of R+D+I project, endorsed by AENOR, which entails a Motivated Report from the Ministry of Science, Innovation and Universities. This is the eleventh certification in R+D+I that DIGIBÍS has received.

The project, "Linked Open Data in Production in Archives, Libraries and Museums" (with the acronym LODLAMPROD), has been presented based on work carried out in 2018. Following the trail of previous projects, DIGIBÍS has continued to innovate in the field of Linked Open Data (LOD),

The aim: to allow the automation and sustainability of applications

this time focusing on production environments with a high quantity and diversity of data and objects, with the aim of identifying and creating applications, processing and work procedures that allow their automation and sustainability.

The aim of the project covered the following aspects:

- The integration of catalogues and data sets of different types and origins, as well as with a distinctive level of detail, although complementary, such as virtual and digital libraries and union catalogues of bibliographic heritage. The experiences carried out have meant the publication, for the first time in Spain, of a Union Catalogue of Bibliographic Heritage in Linked Open Data.
- The integration of catalogues of archives, libraries and museums in the same computer

application, meeting the needs of particular description and the creation of global search systems, thus generating wider and more complete Linked Open Data resources.

- The development of a new design for the presentation and usability of open linked data in the archival field.
- Managing access control to both metadata and digital objects, including the option of mass management of access types, with particular reference to the classes and properties of Europeana's rights judgements.
- The development of mass cleansing processes for authority records and other data sets in a sustainable way, which contributes to the quality and reliability of the linked open data.
- The development of a procedure to obtain a Wikidata identifier for the Polymath Virtual Library and the linking of Wikidata items with the HTTP URIs of that Virtual Library, in order to increase the visibility of the catalogue on Wikipedia and Wikidata.

The developments are a great improvement of the quality of the linked open data

For all this, DIGIBÍS makes use of metadata cleaning and homogenisation processes, semantic reconciliation and enrichment and geo-temporal referencing of entities, which ultimately result in a substantial improvement in the quality of the open linked data generated by its applications in accordance with the Europeana Data Model.

With this, DIGIBÍS has delved into both the production and the consumption of linked open data, and has established different procedures and work methodologies that can be provided as services to any institution that requests them. ■

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