DIGICLIC

DIGIBIS

Information about enriched digitisation, software for libraries, archives and museums and international regulations.

ARPAD PROJECT

19 archives in Galicia

OAIS digital preservation system

DIGIARCH® Web

de Santiago de Compostela
Universidad de A Coruña
de A Coruña
Provincial de Lugo
Reino de Galicia

Archivo Diocesano
Archivo de la
Archivo Municipal
Archivo Histórico
Archivo del

Digital Archive of Galicia

DIGIHUB®
Recolector OAI-PMH

System for the Dissemination and Harvesting of the Cultural Heritage of Galicia

Library of Galicia

DIGIBIB®

STRUCTURE FOR DIGITAL HARVESTING AND PRESERVATION OF A LIBRARY AND 19 ARCHIVES IN GALICIA

SUMARY

Creation of the Electronic Archive of Galician Heritage

Galicia, one of the leading regions in the development and implementation of ICT in Public Administration, issued a call for tenders through AMTEGA (the Agency for the Technological Modernisation of Galicia), for a project to develop the Galician digital archive, the preservation of documentary heritage and the elimination of paper in administrative regions (of Galicia and northern Portugal).

DIGIBÍS has been awarded the two lots from this tender, as reported in pages 8 and 9 of this issue.

The solution offered by DIGIBÍS, based on DIGIARCH© 3.0 covers the system for the preservation of the digital objects, the dissemination and harvesting system and the management system for archival descriptions and digital objects. Therefore, it is a complete and integrated solution that allows for managing, consulting, harvesting and preserving archival information, in compliance with archival standards, using Linked Open Data technology and following the OAI-PMH protocol, which allows for the harvesting by national and international aggregators, such as Hispana, Europeana and the Digital Public Library of America.

This complex and complete network/structure, can be applied to any institution interested in the management, preservation and dissemination of its collection. Through it, DIGIBÍS maintains its commitment to Linked Open Data technology applied to archives, libraries and museums (already mentioned in the previous issue), as well as the adaptation to the corresponding regulations and the latest international standards, adapting to them and keeping up with the evolution of information technology.

> DIGIBÍS is awarded the contract for the creation of the Digital Archive of Galicia

Digital preservation

For this project, DIGIBÍS has established a strategic relationship with the company Libnova, which specialises in digital preservation according to the OAIS model and whose Libsafe product communicates with our DIGIARCH 3.0 program through the input of METS files as Submission Information Packages. Likewise, this product will be used for the harvesting of the Galician website, for the purpose of preserving it in the WARC format. ■

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Europeana Business Plan 2015

Following up on the recommendations made in the Europeana Annual General Meeting held in October 2014, the Europeana Business Plan 2015 was completed in May of this year, under the evocative title/motto *Make the Beautiful Thing.* Its many objectives include, as usual, the improvement of data quality, the enrichment of metadata and the development of tools that streamline work processes, as well as the promotion and dissemination of the contents of the website. The development of a new interface, a new data aggregation infrastructure and the creation of three themed channels are also included.
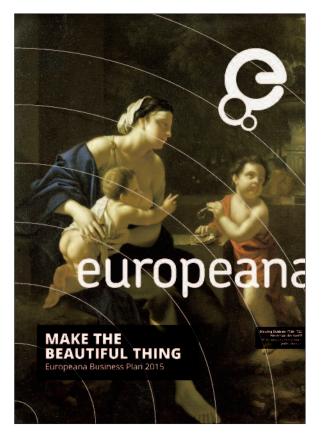
Europeana Cloud and Europeana Metis in development: the new data aggregation infrastructure

Both the technology and needs of providers and users of Europeana have changed and the current technical infrastructure for data aggregation has become outdated –remember it was created five years ago–. Therefore, one of the goals of the 2015 Business Plan is to create a more efficient and dynamic system, that eliminates unnecessary manual processes and facilitates the participation of institutions as the data providers they are.

One of the ideas is to turn aggregators into expert hubs –a concept that is yet to be developed–. To reach this goal, the Europeana Metis tool will be developed for the aggregation of EDM and the cloud infrastructure (Europeana Cloud) will be used. The pilot project of the latter will be tested in late 2015 and it is expected to be implemented gradually by the remaining members starting in 2016.

More visibility, more dissemination, more participation

The current Europeana interface will be renewed and special attention will be given to so-

*Make the Beautiful Thing.
Europeana Business Plan 2015.*

called multipliers (social networks and external platforms, such as Facebook, Pinterest, Tumblr, Wikipedia, DailyArt, Mashable, etc.), which allow not only for increasing visibility but also for encouraging participation by users.

The other Europeana sites. Updates

Europeana will maintain and develop other existing sites, such as "Europeana 1914-1918", in addition to creating three new sites devoted to Music, Fashion and Art History.

This last site is noteworthy for its launch, as a campaign, set for autumn this year, will be organised, through which the 10 most representative works of art will be chosen through the citizen participation of each member country. . ■

3rd ENUMERATE General Survey

INTERNATIONAL

The ENUMERATE project, created in 2011 at the European level, for the purpose of developing a reliable statistical database about digitisation, digital preservation and on-line access to European cultural heritage, published, in late June 2015, the results of its Third General Survey, the first one carried out within Europeana version 3, which the project joined in 2014.

ENUMERATE is the successor of the NUMER-IC project (2007-2009), both funded by the European Commission. This Third Survey is actually the fourth largest study carried out so far regarding the status of digitisation in European cultural institutions. The fact of being part of the European Digital Library is important, as it is currently developing a digital observatory (ENUMERATE Observatory), which will provide access to both the documentation and the statistical data gathered.

Spain, the country with the widest participation in this Core Survey 3

Between February and May 2015, over 1,000 institutions from 31 countries, including Spain, participated by sending their answers to the questionnaire, which focused on collections, digitisation activity, online access, digital preservation strategies and investment in the digitisation of heritage. As on other occasions, DIGIBÍS has been the national coordinator of the survey in Spain.

General participation, including Spanish participation, has decreased compared to previous surveys. However, our country, with 194 surveys submitted, has been the one with the widest representation in this issue.

The great majority of the surveys received belongs to memory institutions with collections that must be preserved for future generations and 84% already have digital collections.

Digitisation and preservation strategies increase

The number of institutions with a written digitisation strategy has increased from 36% to 41% while the written preservation strategy remains the same. About 47% of institutions have not yet developed a long-term digital preservation strategy.

The growth of digitised collections remains in constant –albeit slow– growth (3% more in each Survey compared to the previous one), with the percentage of works that remain undigitised decreasing by half.

It is positive to see how the percentage of cultural heritage institutions gathering works originally in digital form has increased (from 52% to 60%), especially among libraries. In terms of on-line access, almost half (45%) of metadata is available. Libraries show the highest percentage and museums the lowest one.

The average budget invested in digital collections is of 276,471 euros (budgets range from ten million to ten thousand euros). Full-time staff devoted to digitisation remain the same as in the previous survey.

The different statistical reports and the data gathered by the surveys (completely anonymous) can be accessed through the ENUMERATE Data Platform (http://dataplatform.enumerate.eu/), developed by DIGIBÍS in the first phase. Using this platform, institutions can compare their performance indicators with those of other institutions (whether national or from other European countries). ■

ARPAD Project to create the

On 4 May 2015, DIGIBÍS was awarded the contract in the tender by AMTEGA (Agency for the Technological Modernisation of Galicia) to design, develop and implement the Electronic Archive of Galician Heritage.

Created in 2011, AMTEGA is the strategic and executive tool driving the modernisation of the government and the economic and social development of Galicia, allowing for greater efficiency and reductions in expenditure. The ARPAD Project, the framework of the contract awarded to DIGIBÍS, is part of this commitment to ICT.

The ARPAD project is a cooperation initiative between the administrations in Galicia and northern Portugal, which will allow for reducing the use of paper in government operations in two ways: through the use of electronic document management, with the creation of the Digital Archive of Galicia, and through the development of digital administrative services and interoperability. The goals of this project include the preservation and promotion of Galician and northern Portuguese documentary heritage.

Divided into two lots, the tender includes, first of all, the creation of a system for the preservation of the digital cultural heritage of Galicia and, secondly, a system for the dissemination and harvesting of Galician digital cultural heritage and a management system for archival descriptions.

The integration and interconnection of these three systems is necessary for greater working efficiency in terms of staff, costs and resources, which corresponds to one of the goals of the ARPAD project. For this reason, DIGIBÍS offered a

Website of the Agency for Technological Modernisation (AMTEGA) establishing the objectives of the ARPAD Project and its lines of action, including the design and construction of the Digital Archive of Galicia.

complete solution that interconnects the systems specified in both lots of the tender and allows for unifying tasks.

The digital preservation system serves the purposes of preserving documents created digitally,

Digital Archive of Galicia

managed by the Administrative Electronic Archive and the digitised document managed by the Management System of Archival Descriptions. The OAIS protocol defined by the ISO 14721:2012 standard will be applied, it being the reference model for open archive information systems.

For this project, DIGIBÍS has established a strategic relationship with the company Libnova, which specialises in digital preservation according to the OAIS model and whose Libsafe product

> DIGIBÍS offered a complete solution that interrelate the specified systems in the two batches of the contest and allows unify tasks

communicates with our DIGIARCH 3.0 program through the exchange of METS files. Likewise, this product will be used for the harvesting of the Galician website, for the purpose of preserving it through the WARC format specified by the ISO 28500:2009 standard, ensuring its preservation.

Specifically, the system performs passive preservation (backup copies and metadata catalogues) and, especially, active preservation that allows for the evolution to new file formats, modifications or updates of standards and digital signature management. Furthermore, the system always maintains version tracking and does not eliminate previous metadata, so that new metadata sets linked to an object can be created without losing all the previous ones.

For the Archival Description Management System, the DIGIARCH© WEB© 3.0 program by DI-

GIBÍS will be used, migrating the data and metadata of existing files to it. For all analogue or digital archival documentation, this system acts as a connection and coordination component between both the administrative electronic file and the preservation system and the digitised archival documents and the Preservation System. The Archival Description Management System will comply with the ISAD(G) and ISAAR(CPF) norms and the EAD (Encoded Archival Description) and EAC (Encoded Archival Context) standards. Furthermore, data and metadata will be encapsulated in METS. This will ensure their preservation.

Regarding the Dissemination and Harvesting System, its main objective is to provide a virtual collection of all the digital objects generated in the Euroregion of Galicia and northern Portugal and is aimed at being the single consultation point of all the digital cultural and scientific heritage of Galicia. To do this, the OAI-PMH[1] protocol will be used.

A complete and integrated solution

With this functional architecture, DIGIBÍS provides a complete and integrated solution for the consultation, harvesting and preservation of historic archival information, always using the appropriate standards of digital information archives, as well as Linked Open Data, which provides added value. It is clear that this integrated solution prevents errors, rationalises all digital processes and makes them more economically viable. ■

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[1] DIGIHUB© generates an OAI-PMH repository that will allow for digital cultural and scientific heritage to be harvested by other national and international harvesting services, such as Hispana and Europeana.

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L A B A P P L I C A T I O N S

LAB APPLICATIONS

What's new in DIGIHUB 4.0

DIGIHUB, a program developed internally by DIGIBÍS, is an integrated system that harvests metadata of digital objects using the OAI-PMH protocol and displays them in a repository that uses the same protocol.

DIGIHUB has been used since 2006 by Hispana, the national aggregator, which currently contains over 5 million digital objects and which has been mentioned in the Europeana Business Plan 2014 as a prime example of a national aggregator.

The new 4.0 version of DIGIHUB has been updated with new protocols and formats while the different modules have been made more customisable, allowing for their adaptation to the needs of the customer/institution/project. Version 4.0 will be used for projects such as the digital repository of Galicia and northern Portugal.

Directory of Digital Collections

- It allows for the inclusion, removal and modification of digital collections to be integrated in the system, as well as their data
- It allows for the inclusion, removal and modification of the OAI-PMH repository associated with each digital collection as well as its data
- It incorporates a web interface for public consultation that can locate a specific collection or repository. It also allows for searching metadata in a specific repository.

OAI-PMH Harvester

- Updated formats: MARC_OAI, ESE v.3.4.1, DIDL (DRIVER), EAD3 OAI_DC, METS, MODS, DPLA Metadata Application Profile v.4.0, LIDO.
- Consultation of harvesting: Harvesting can be consulted, with direct access to all OAI-PMH repositories registered in the system, allowing users to obtain an overview of the status of harvesting. DIGIHUB displays the harvesting consultation as a summary, offering the possibility of sorting the results. Thus, the system administrator can obtain the following information quickly: repositories activated for subsequent harvesting; errors arising

DIGIHUB is a Linked Open Data application

during harvesting; repositories with the greatest number of pending changes; repositories that provide the largest number of records, etc.

- The system administrator can perform the following operations:
  - Invalidate the records harvested;
  - Assign the records harvested to a specific set in the OAI-PMH repository. This allows each repository to be harvested as chosen: wholly or partially, with a few specific formats or all of them. The same thing can be done for supplying data to external aggregators, such as Europeana, Hispana and OAIster.
  - Access to harvesting history

Web consultation interface

The consultation interface includes a section showing the total number of providers (OAI-PMH repositories) registered in the system and the total number of records harvested and available for consultation. It also shows the last three providers of harvested data (OAI-PMH repositories).

The list of results, thanks to the Europeana and DPLA APIs, displays search results in these harvesters.

Records are displayed in a record sheet and OAI_DC formats, in addition to all formats provided by the source repository since DIGIHUB harvests all the formats existing in the source repository. New facets have also been added to further improve searches.

DIGIHUB is the application on which Hispana runs

Both the static content of the system and each of the tags related to the search fields are available in the languages specified by the system administrator. DIGIHUB includes a content management module to facilitate the translation of the web interface into any languages desired.

The web interface also allows for the use of any RSS aggregator to notify updates, as well as for connecting to the institutional profile of the institution on social networks, such as Twitter or Facebook.

OAI-PMH repository

DIGIHUB features an OAI repository that allows for a harvesting system to be harvested in turn.

The OAI-PMH repository supports formats for libraries, archives and museums.

The system administrator can configure:
- Repository data For instance, the data offered to the Europeana harvester and the minimum data that can be used to limit the records that should be harvested.
- Repository description (content, metadata licence, update policy, data permissions, other comments)
- Data access configuration: configuration of sets to differentiate harvesting processes as required by the system itself.
- Configuration of sets to define specific parts of a repository, thereby facilitating the harvesting of resources by harvesters.

SRU Server

It allows for accessing the metadata harvested in the system using CQL queries and provides the means to create APIs for different web services, including discovery.

Configuration and settings of the system: access to the different system tasks can be customised through users and user profiles.

Linked Open Data

The program allows for accessing all the information of digital collections, complying with the requirements of Linked Data.

Potential new features:
- Conversion of harvested data to the new internal data model.
- Generation of new entities in the internal DIGIHUB linked data model.
- Use of the OAI identifier to generate URIs in an indexed field, allowing for the quick location of a record using said identifier.
- Validation of the RDF and URIs generated using the online tools from W3C and similar institutions. ■

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New installations of DIGIBIB 9.1

The update process to version 9.1 of the DI-GIBIB Integrated Library System, a proprietary development by DIGIBÍS, has begun. This involves the Virtual Library of Aragonese Law (http://www.derechoaragones.es/) and the Virtual Library of the Principality of Asturias (http://biblbiotecavirtual.asturias.es/).

Currently, the digital preservation of cultural heritage is as important as its accessibility. This is why, in DIGIBIB 9.1, the OAI-PMH and Linked Open Data (LOD) repositories have been adapted to the latest version of the Europeana Data Model (EDM 5.2.6 of December 2014), a mandatory requirement for the aggregation of resources in Europeana.
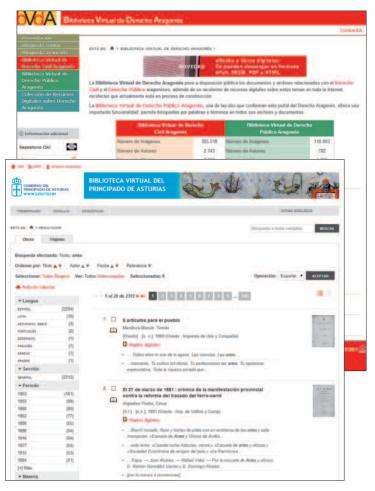
The new version of DIGIBIB promotes the use of Linked Open Data.

The generation of BibTeX references, support for ALTO files and the management of large PDF files have been improved, which results in greater visibility and access to the digital object for users.

The adaptation affects both cataloguing and web consultation

The adaptation to the latest amendments of MARC21/RDA (Update 19), including new fields, affects both cataloguing and web consultation. Along with this, the improvement in the generation of links and the possibility of using any link to navigate to web resources in any field will facilitate and enrich consultation by users.

As a new feature in the Virtual Library of Aragonese Law, there is the possibility of performing a differentiated or common search in the two virtual libraries it contains (Civil Law and

The Virtual Library of Aragon updated to version 9.1 and a page of full-text search results. In this case, the search term is "arts".

Public Law). The second one of these libraries allows for full-text searches, thanks to OCR digitisation. There are also downloadable digital resources in ePub and Mobi formats, after the publication of e-books by DIGIBÍS.

The Virtual Library of the Principality of Asturias, thanks to its application of LOD, is a clear example of semantic enrichment in a Spanish digital collection accessible through Hispana and Europeana. Bibliographic and authority records are enriched with the information provided by links external to the List of Subject Headings (LEM) in SKOS, to VIAF and DBpedia.

The use of OCR in the digital objects of this library also allows for full-text searching. ■

Félix Cañada Museum, with DIGIMÚS

The implementation of a prototype digital museum with the collections of the Félix Cañada Museum of the Gómez Pardo Foundation, announced in the previous issue, is now a reality.

The digitisation of part of the museum's painting and sculpture collection has begun, while the IT, innovation and documentation departments are working together on the creation of the virtual museum prototype, which uses the DIGIMÚS program, a proprietary development by DIGIBÍS, for

works by aggregators like Hispana and Europeana and the identification of these by search engines, such as Google.

The Félix Cañada virtual museum prototype is easy for users to browse. Searches can be general or filtered by name, object type, classification or date of completion, which can be a single date or a range of time. The catalogue can also be browsed by artist, artistic expression, artistic period or chronologically, through the use of a timeline.

Website of the Félix Cañada Museum, developed with DIGIMÚS, the application for the digital management of museums developed by DIGIBÍS.

Digitisation has also fallen under the responsibility of DIGIBÍS, for which reason digital objects have been incorporated into the museum enriched with the necessary metadata and standards to be aggregated directly by harvesters, such as Hispana and Europeana.

the cataloguing, harvesting and web visualisation of the digital collections of museums, historical sites or temporary exhibits. The people of the Gómez Pardo foundation in charge of cataloguing the pieces of the Félix Cañada Museum have received training at the DIGIBÍS headquarters to learn about the operation of this new and updated computer application.

In line with the maximum quality and updating of DIGIBÍS products, as in all computer products developed by this company, the DIGIMÚS application meets all national and international standards: LIDO regulations (Lightweight Information Describing Objects) by the ICOM (International Council of Museums), EDM (Europeana Data Model), the LOD (Linked Open Data) and SKOS (Simple Knowledge Organisation System) models and the OAI-PMH (Open Archives Initiative) protocol. These standards enable the harvesting of

The presentation of the records of pieces is visual and attractive, especially thanks to the adaptive design of DIGIMÚS, which allows visualisation to be adapted to any device. Browsing allows users to follow their own criteria through materials/techniques, object types, periods, authors, agents or place where the work is located. Thus, from a Spanish still life, we can access all the works in the virtual museum catalogued under this classification.

Of course, the author record can also be accessed. This is a complete record that contains not only biographical information but also all relations (authors, institutions, etc.) and links to works, places, professions, activities, languages, etc., of the author in question. The records are downloadable in EDM format (EDM Agent where appropriate) as well as LIDO and Dublin Core in the case of pieces. ■

LAB APPLICATIONS

EVENTS

Virtual Library of Science and Techn

On 20 January 2015, Casa de América hosted the presentation ceremony of the Virtual Library of Science and Technology in the American Enterprise, a project born out of a collaboration between the MAPFRE Foundation and the Ignacio Larramendi Foundation.

The presentation was delivered by Tomás Poveda, director of Casa de América, who opened the ceremony; Luis Hernando de Larramendi, Executive Vice-President of the Ignacio Larramendi Foundation; Antonio Huertas, Chairman of the MAPFRE Foundation; Xavier Agenjo, Project Director of the Ignacio Larramendi Foundation; and José Manuel García-Margallo, Minister of Foreign Affairs and Cooperation, who closed the event.

Among those present at the event were Lourdes Gutiérrez Martínez, President of the Ignacio Larramendi Foundation, and her children; the Cuban Ambassador, Eugenio Martínez Enríquez; and different personalities from the Ministry of Foreign Affairs, such as Jesús Gracia, Secretary of State of International Cooperation for Latin America, from the Government, and from the business and professional world.

The Virtual Library, accessible through the website of Ignacio Larramendi Foundation, is once again supported by DIGIBÍS technology and design, as well as by its General Director, Tachi Hernando de Larramendi, due to her particular interest in subjects of heritage preservation. It collects the works of Spanish and Portuguese scientists of the 16th century, whom, after the discovery of America, studied the new continent in all its aspects (fauna, flora, geography, language and native culture), delving into the sciences that affected the technology of the time, such as mathematics, navigation, astronomy and medicine, and whose works were admired, translated and studied by scientists not only of their time but also of the following centuries.

The creation of this Virtual Library used the DIGIBIB version 9 software, developed by DIGIBÍS,

which has allowed for the use of the latest coding for information and technology, i.e. the MARC21 format, with the latest update of the RDA (Resource Description and Access) standard, as well as Linked Open Data (LOD) technology, in accordance with the Europeana Data Model (EDM). Thus, the extensive records of each polymath offer a large amount of data, recorded as established in the RDA regulations, and enriched with links and URIs to open files and lists such as the VIAF (Virtual Internacional Authority File), the authority catalogue of the National Library of Spain, World-Cat Identities, Library of Congress and DBpedia, among others. The bibliographic records of manuscripts, monographs, maps, drawings and articles have also been adapted to the MARC21/RDA

nology in the American Enterprise

Pictured, from left to right, Tomás Poveda, Director of Casa de América; Antonio Huertas, Chairman of the MAPFRE Foundation; José Manuel García-Margallo, Minister of Foreign Affairs and Cooperation; Luis Hernando de Larramendi, Lourdes Martínez and Xavier Agenjo, Executive Vice-President, President and Project Director, respectively, åof the Ignacio Larramendi Foundation. Above these lines, the homepage of the Virtual Library of Science and Technology in the American Enterprise

format and enriched with the List of Subject Headings (LEM) published by the Ministry of Education, Culture and Sport in SKOS.

The 612 works in this Library have been harvested from the more than 44 million digital objects in Europeana, through the DIGIHUB harvester, developed by DIGIBÍS for its library management program, which, as in other Virtual Libraries of the Ignacio Larramendi Foundation, were improved and incorporated into its database.

Furthermore, thanks to the Europeana API, each search performed in the Virtual Library returns results not only from the Virtual Library itself but also those that are incorporated into Europeana.

The "Introduction" to this Virtual Library, drafted by Xavier Agenjo Bullón, Project Director of the Ignacio Larramendi Foundation, reveals the scientific importance of the polymaths that compose it, while offering an introduction to the subjects that users will find in their works: navigation, cosmology, cosmography and mathematics, natural history and anthropology, with a summary about each author.

For its part, the "Note on the digital edition of this Library" focuses on the technical questions (computer- and library-related), with an evolutionary journey regarding standardisation and visibility, highlighting the lack of homogeneity existing in transcribed and uniform titles. ■

EVENTS

DIGIBÍS activities at Fesabid

On 28, 29 and 30 May, Gijón hosted the 16th Spanish Documentation Conference organised by the Spanish Federation of Associations of Librarians and Documentalists (Fesabid), a biennial participatory meeting that presents the latest news in this professional area. True to this edition's motto "Open Culture-Shared Knowledge", the conferences were open to managers and professionals of information sciences and related industries (such as journalism, education, research).

Opening of data, knowledge and information in Spain: the subject of this edition

The meeting, which was opened by Donna Scheeder, current president of the IFLA (International Federation of Library Associations and Institutions), revolved around three fundamental areas: public information and data and open collections (more transparent Government and more shared culture); open research (from Open Access to Open Data); open education and new skills (reactivation of the educational function of libraries and information services). Each of these topics was covered in a presentation by Alberto Ortiz de Zárate, promoter of Open Data Euskadi, Susan Reilly, Director of LIBER, and Carlos Magro, Vice-President of the Open Education Association.

The conference also included workshops, such as "Wikipedia unmasked", "Digital projects", "When the systems that manage research data fail" or "Exploit your data"; communication panels such as "Transparency and Open Data", "Technical skills and standards to open collections"; seminars; round tables ("Collective catalogues", "The new ISO 9001:2015", "Open access to science in Spain") and communication panels ("Opening of data and/or reuse of public information", "Open education and new skills"). The high degree of participation and quality of the contents of

Fesabid 2015, the 16th Spanish Documentation Conference was held at the Gijón Conference Centre. Above Chillida's sculpture, the sign of identity of the city, you can see photos of the DIGIBíS stand and poster, as well as the table where Xavier Agenjo Bullón, Project Director at DIGIBíS and the Ignacio Larramendi Foundation (second from left) participated.

this edition has satisfied attendees, with the results of the conference being very positive.

LOD, EDM and LIDO: DIGIBÍS contributions to FESABID '15

DIGIBÍS, event partner and active participant in conferences and expos of library and information sciences, was also present at the event. It prepared a stand where Javier Mas and Jorge Ramírez, from the Sales Department, welcomed the many attendees who came.

It also participated in the poster exhibition for DOCUMAT 2015, with a poster titled "ENUMERATE: the Observatory of Digitisation in Europe",

2015, Gijón

prepared by Xavier Agenjo and Maribel Campillejo.

Within the technical programme, DIGIBÍS professionals participated with three presentations:

• "The Europeana Data Model: its standardising role in semantic enrichment processes through Linked Open Data technology", by César Juanes;

• "How and what to consume in Linked Open Data; how and what to produce in Linked Open Data", by Xavier Agenjo and Francisca Hernández´;

• "The LIDO format for museum description: analysis of the data model from a specific project", a collaboration between Xavier Agenjo, Andrés Viedma and Susana Hernández.

Gloria Pérez Salmerón, IFLA President-Elect

During the conference, the *ThinkEpi 2015* annual report was presented. Xavier Agenjo, Gloria Perez Salmerón, Natalia Arroyo and Remedios Melero, coordinated by Tomàs Baiget, intervened.

Likewise, the results of the vote for the IFLA presidency were announced. This position has gone to Gloria Pérez Salmerón, President of Fesabid and member of the European Bureau of Library, Information and Documentation Associations (EBLIDA). This is noteworthy news, as she is the first Spanish-speaker to occupy this position.

The venue chosen for the next meeting, Fesabid 2017, will be the city of Pamplona. ■

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E V E N T S
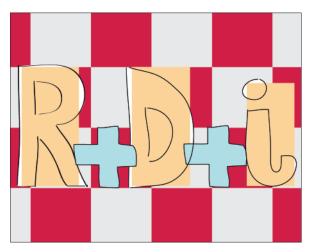
DIGIBÍS, 15 years of investment in R&D&I

DIGIBÍS is a company characterized by its R&D&I activities. From 2000 to 2013 (2014 certification), the company has participated in different research and development programmes.

Since early 2007, DIGIBÍS has been included in the Registry of Institutions involved in research and development operations, created by the former Ministry of Industry, Tourism and Commerce through Order ITC/570/2006 of 22 February.

The Technical Research Development Programme (PROFIT), an integral part of the National Plan for Scientific Research, Development and Technological Innovation (2000-2003) of the former Spanish Ministry of Industry, Tourism and Commerce, recognised the first research and development project by DIGIBÍS. This was a three-year project (2000-2002) that developed the program "DIGIPRESV©, management and preservation of documentary archives". It was later certified by the Spanish Association for Standardisation and Certification (AENOR).

The second project, developed in 2002, was dedicated to the "Standardised digital information exchange between Memory Institutions (MIs): Archives, Libraries and Museums. DIGIPRESV v2.0"; the third project, recognised by PROFIT, focused on "Ontology and the Semantic Web of Polymaths" and the latest one, in 2005 and 2006, on "Repositories and Harvester of the Open Archives Initiative-Protocol for Metadata Harvesting (OAI-PMH)".

From 2008, AENOR has annually awarded various DIGIBÍS projects a certificate accrediting them as R&D&I Projects. These technical innovation projects with their corresponding AENOR certifications have received the corresponding

"Reasoned Reports" by the Ministry of Science and Innovation, regarding compliance with scientific and technological requirements. In the same year, 2008, AENOR certified our research on the "Standardisation of digitisation processes and interoperability of Digital Libraries".

DIGIBÍS has devoted several R&D&I projects to digital objects: in 2009, "Management of digital objects, accessibility and interconnection of Digital Libraries"; in 2010, to the new conceptual and functional models of digital objects; and in 2011 to the "Management of digital objects and metadata under Linked Open Data".

The two latest R&D&I projects by DIGIBÍS were devoted to "Digicloud: digital heritage in the cloud" (2012, certified in 2013) and to "Interfaces for the consultation of archives, libraries and museums on the data web" (2013, certification of 2014).

For the sake of transparency, it should be noted that DIGIBÍS has presented substantiated projects, all of them certified, with a total investment of 3,797,566 euros.

DIGIBÍS displays a digital copy of all of these certificates under "About us → R&D&I→ AENOR Certificates", on its website. ■