

DIGIBÍS® Newsletter. No. 16. July-December, 2016



DIGICLIC

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



Editorial 3

INTERNATIONAL

Europeana

Annual General Meeting 2016 4

GLAM APPLICATIONS

Upgrades to DIGIBIB 9.1

The Valencian Digital Library, which is even more powerful after being upgraded 5

Americanae comes into production 6

The Royal Academy of Pharmacy upgrades its virtual and physical libraries 7

Virtual Library of La Rioja: upgrading with redesign 8

The rigour of the Educational Digital Library of the Region of Murcia 9

Certificates en R+D+I

Projects in R+D+I that improve our applications 10

AENOR again acknowledges the R+D+I work of DIGIBÍS 12

DIGITAL OBJECTS

Enriched digitisation

The Association of Lawyers of Madrid digitises the document of its foundation 13

The Virtual Library of the Province of Malaga expands its digital collections 14

The Bank of Spain Library continues digitising its documentary history 15

News

DIGIBÍS, Innovative SME 16



DIGICLIC
DIGIBÍS® Newsletter

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DIGIBÍS, an innovative company

By being awarded the seal of innovative SME from the Ministry of Economy and Competitiveness, the Administration of the State acknowledges and certifies DIGIBÍS effort during the last fifteen years in proposing certified R+D+I projects.

This rewards the commitment of our company to innovate in the field of digitisation, for libraries, archives and museums programmes (GLAM) in the theoretical framework of new technologies and, what is more important, the revitalising of these projects in four applications to manage digital libraries, archives, museums and aggregators of metadata.

Nine projects have been implemented in this field from 2000 to 2016 and, what is relevant, have been **certified** by the Spanish Agency for Standardisation and Certification (AENOR). All of these projects are based on the analysis of both the market as well as international standards, anticipating the needs of the libraries, archives and museums (GLAM) sector in a new context.

Indeed, professionals theoretically know about the advances of documentation science, especially in the field of information and communication technologies, but seldom benefit from them because the digital integrated management systems that are available to them are very far away from the possibilities of current developments.

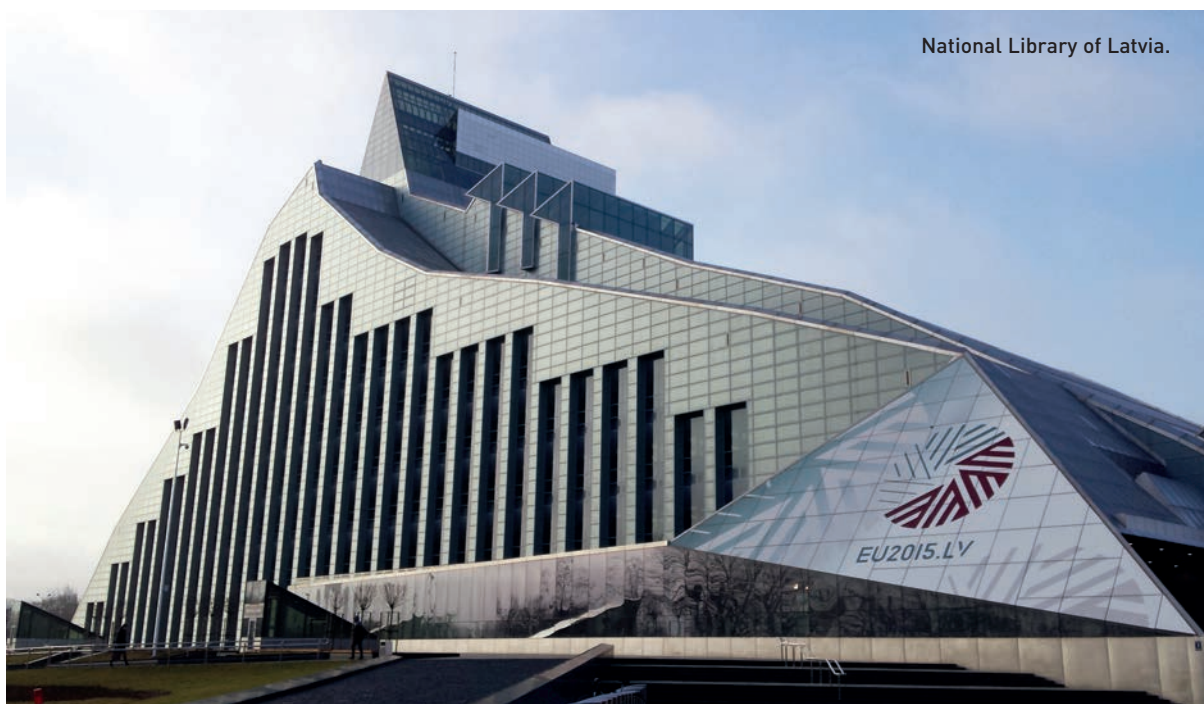
Aware of this, DIGIBÍS maintains an Innovation Department, in collaboration with the **Ignacio Larramendi Foundation**, that keeps a constant technological surveillance policy, even participating in AENOR's committees and giving an account of the developments in articles, papers and communications.

Even more important is that this technological surveillance is reflected in a growing number of jobs that are closely linked between the Innovation Department and the IT Department of DIGIBÍS and are incorporated into the new versions of the **DIGIBIB**, **DIGIARCH**, **DIGIMÚS** and **DIGIHUB** programmes.

When the Ministry of Economy and Competitiveness awarded us the seal of innovative SMES it recognised a reality and DIGIBÍS, with its appreciation, replies with a new project called SEMERITAGE on which further information will be provided in **DIGICLIC**. ■

Our integrated
management systems
are kept up-to-date
with respect to the
recent advances of
documentary sciences

Annual General Meeting 2016



The Annual General Meeting (AGM) of the Europeana Network Association took place this year in the National Library of Latvia in Riga. It was carried out on 8 and 9 November, under the motto "Show us what you've got"

This meeting reported that the new strategy is based on:

- facilitating the exchange of data to Europeana, as objective that is addressed at heritage institutions; and
- modernising the ways in which users access content, focusing on access to pedagogical applications and on thematic access

On the first point, there was a discussion on "direct operation", which would mean loading data into Europeana directly through an API or a CMS, for example. This would be a complementary operation to those of the current aggregators.

On the second point, it became obvious that thematic collections are moving on as a matter of priority in connection with the general portal, with their more than 53 million records. And for the first time, the European Commission intends to finance mediation projects in the virtual collections of Europeana.

During the two days of the meeting many issues were addressed, such as the mandate given to the Europeana to exert pressure in the field of author's rights or in assessing the impact of the European digital library.

The American members, for their part, spoke of their experience in the DPLA, the Getty, the NYPL Labs, or the Smithsonian Institution Archives.

The "Chief's table" focused on the use of Europeana for research and education, but also for the dissemination of heritage, the user-centred design and the use of Wikidata. The interesting "ignite talks" were like a vast brainstorm, something that characterises this rich and diverse European network: the use of Open Data for education, the use of virtual reality to present cultural heritage, "Geodata", the introduction of interactive 3D in Europeana, the transcription tool of Europeana, Europeana as an encyclopaedia for European culture, etc.

The meeting ended with a speech by Mia Ridge, from the British Library, on the digitization, entitled "Why do we digitise? 20 reasons in 20 pictures". ■

The Valencian Digital Library which is more powerful after being upgraded

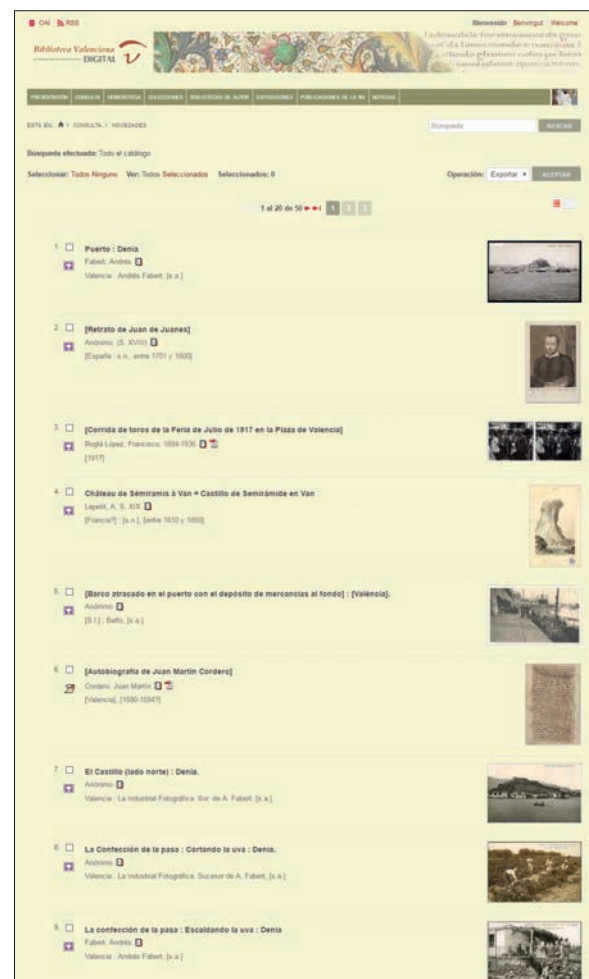
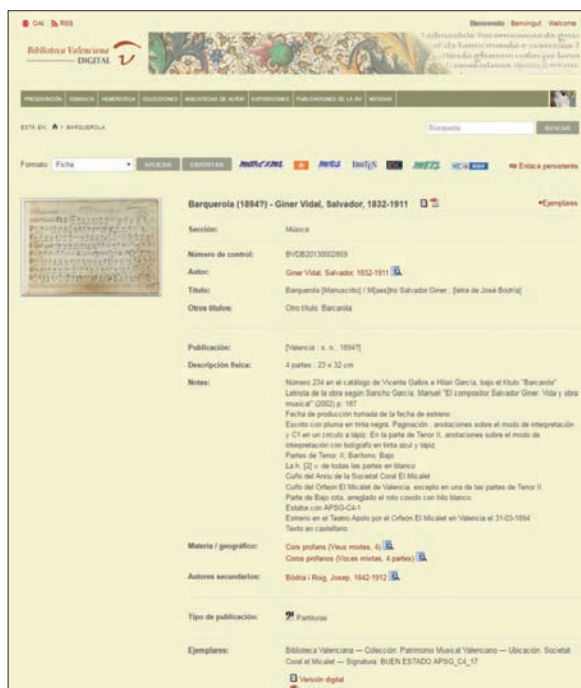
In the **Valencian Library Digital** (BIVALDI) the user will find more than 6,700 digitized works, corresponding to manuscripts, printed materials, illustrations, maps, and documents, dated from 1274 until today. In total, more than 750 000 multimedia objects, most of which are in PDF and JPEG format, but also in TIFF and WAV [audio].

With the upgrade to version 9.1 of **DIGIBIB**, BIVALDI users will enjoy greater clarity when browsing, and of small improvements that increase the quality of the service, such as the

management of large PDF files or improved generation of BibTeX references.

In addition, DIGIBIB 9.1 includes the latest amendments to the MARC21/RDA (Update 19) regulation, an improvement in the generation of links and the ability to browse any link to Web resources in any field; all this, will facilitate and enrich the user's query.

In addition, thanks to the upgrade to EDM 5.2.6, the records of the Valencian Library Digital can be harvested by Europeana, increasing their access and visibility to a wider audience. ■



To the side, above, part of the digital object of a score; below, a detail of the home page of digital Juan Luis Vives, which includes a study, a chronology, a bibliography, and his complete free text works. On these lines, the news page of the library.

Americanae comes into production

In the last DIGICLIC, we advanced the creation of **AMERICANAE**, a dissemination and compilation system for collections, which was officially launched on 28 June 2016 by Maria Araceli García Martín, director of AECID's Library, at the 27th General Assembly and REDIAL conferences held in Salamanca.

With this aggregator, the AECID has made the proposal a reality, launched by Xavier Agenjo, Project Director of the Ignacio Larramendi Foundation, at the 7th Meeting of Spanish REDIAL Centres, in 2013, to create a portal that will bring together the documentation on Latin America that is held by various European institutions and the rest of the world.

AMERICANAE, as a single point of consultations for Americanist collections, compiles information about digitisation projects and digital collections of libraries, archives and museums related to the Latin American subject and harvests the metadata via the open access repositories of institutions, both national (Documentation Centre of the Canary Islands and America, Hispanic-American Studies College of CSIC or Latin America in the collections of the Virtual Library of Bibliographical Heritage, of the Ministry of Education, Culture and Sport) as well as international (Centre d'Information Scientifique et Technique REGARDS, Digitalen Sammlungen des Ibero-Amerikanischen Instituts, LLILAS Benson Latin American Studies and Collections).

By the end of 2016, AMERICANAE has gathered nearly 170,000 digital resources and 16 repositories. The project, which uses the **DIGIHUB** software, has been conceived on the same technological base as that of Europeana and Hispana and has, among its features:

- A directory of digitization projects and repositories of Latin America and Europe.
- An OAI-PMH harvester that compiles its content from different OAI repositories that are arranged in thematic sets with such content.
- An OAI-PMH repository, dynamically fed from the harvester, which allows to add digital re-



Detail of an example of data from a register in RDF.

sources harvested from different national (for example, **HISPANA**) and international (**Europeana**, **OAIster**, **Digital Public Library Of America**, etc.) services.

- A SRU server.

Application and use of Linked Open Data technology

But AMERICANAE also represents a step forward in the field of the harvesting and aggregation of digital resources, because it allows semantically enriched resources to be harvested and aggregated and to be exported in RDF. Linked Open Data Technology (LOD) is the present and future of digital collections, and AMERICANAE is prepared for it.

Interconnection with Europeana and DPLA.

In addition, the system integrates the search APIs of Europeana and DPLA, in such a way that the user, when searching in AMERICANAE, is able to see the results obtained with enriched records of both databases. ■

Virtual Library of La Rioja: Upgrading with redesign

The Virtual Library of La Rioja has upgraded its DIGIBIB library management system to the 9.1 version; an upgrade that has been accompanied by a new, more attractive design for the visitor, which includes a new colour palette and a change in the logo and acronym of the library (now BiVirLa)

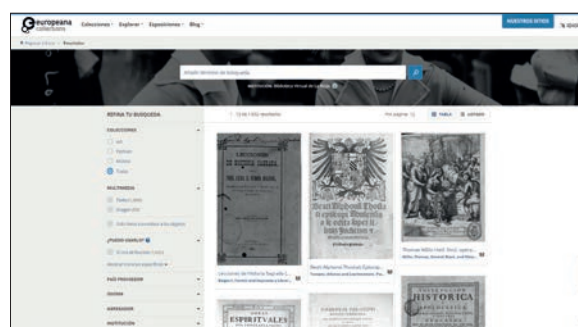
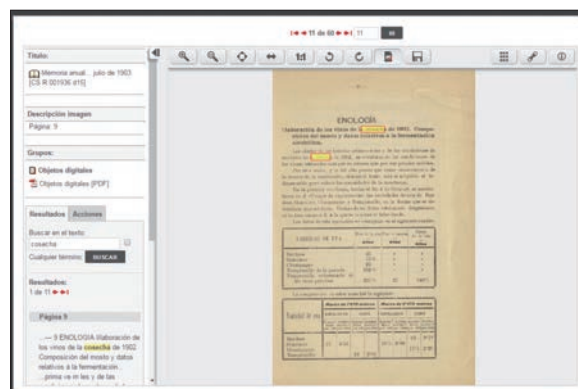
Browsing through the sections of the Virtual Library of La Rioja (called Collections in the search form), helps librarians and users to filter and group the content of the works in this Virtual Library.

In addition, the Virtual Library of La Rioja, as every library that uses DIGIBIB, allows the full text search for those digital objects that have been processed with OCR (Optical Character Recognition). In this sense, we can announce that the 26 287 images corresponding to the 97 works digitised by DIGIBÍS in 2016, were loaded together with their ALTO files (those that contain the result of the OCR process) and can now be consulted and sought at full text on this Virtual Library's website.

These digital objects were handed over with their corresponding metadata: Dublin Core, MARCXML, ISO 2709 and METS. And thanks to the OAI-PMH repository of the Virtual Library of La Rioja, which supports OAI_DC, ESE formats (Europeana Semantic Elements) and EDM (Europeana Data Model), the records are accessible from Hispana and Europeana, aggregators in which the Library has participated since its creation in 2008.

Currently, the Virtual Library of La Rioja contains almost 1600 digitised works and more than 476 000 images. ■

From top to bottom: the home page of the Virtual Library of La Rioja, a page is displayed in the DIGIBIB viewer where the word searched for is highlighted; register of the Hispana Library and digital objects of the same library shown in Europeana.



The rigour of the Educational Digital Library of the Region of Murcia

The Educational Digital Library of the Region of Murcia is an outstanding example of the diffusion that can be carried out using the digitisation of the educational heritage maintained by the Historical Secondary Schools of our country.

The educational heritage, as José Luis Yepes, a professor at the IES Alfonso X El Sabio (Murcia) stated, during the 10th Congress of Historical Education Schools (Teruel, from 30 June to 3 July 2016), is part of the historical and cultural her-

This Digital Library
has an OAI-PMH
repository that supports
OAI_DC, ESE and EDM

itage, although it has not been recognised strictly in the legal framework (even in non-law proposals) and "survives oblivion in a legal limbo"¹.

The library collections of Historical Secondary Schools have suffered political and bureaucratic swings (confiscations, changes of institution, lack of staff, etc.) as well as the theft and abuse of its users. This is why Yepes concludes: "In this situation of barbarism and pillaging, [...] digitization comes to us today as an emergency service."².

Because of all this, the Educational Digital Library of the Region of Murcia takes the dissemination and preservation of its heritage very seriously and uses this digital platform as a point of access to both the historical collections held by the Secondary Schools of the region (from the 16th century) as well as to the educational publications edited by the Ministry of Education of Murcia from 2000.

DIGIBIB's digital library management system has been entrusted with this, which has been



recently upgraded to the 9.1 version. In addition, since 2011 the collections of the Institute Alfonso X have been gradually digitised by DIGIBIB, which in 2016 digitised 10,518 images corresponding to 26 works. This Digital Library has an OAI-PMH repository that supports OAI_DC, ESE and EDM formats, which allows its visibility and dissemination to be increased through its presence in **Hispana** and **Europeana**. ■

¹ Yepes Hita, J. L.: «Biblioteca Histórica y de Fondo Antiguo. MUSAX», in Communications of the 10th Congress of Historical Institutes (Teruel, 30-VI to 3-VII 2016).

² Idem.

Projects in R+D+I that improve

Since 2000, DIGIBÍS has carried out nine projects that have been certified as first in the Programme for the Promotion of Technical Research (PROFIT due to its abbreviation in Spanish), by the Ministry of Industry, Energy and Competitiveness, and later by the Spanish Association for AENOR Certification.

The results of those R+D+I projects have been implemented in the application developed by DIGIBÍS in the field of information and communication technologies for libraries, archives and museums, which is now known by the acronym GLAM.

The logo for DIGIBIB, featuring the word "DIGIBIB" in a bold, sans-serif font. The "DI" is in red and "GIBIB" is in grey. A registered trademark symbol (®) is at the end.

DIGIBIB, to manage digital libraries

The DIGIBIB application for the management of digital libraries between 2000 and 2002 benefited from the DIGIPRESV and DIGIPRESV v. 2.0 project that had to do with the standard digital exchange of information from memory institutions (MI).

In the same way that any user of the DIGIBIB programme notices, the bibliographic records of authorities and records of collections can be exported in a variety of formats, all of which are standardised: MARC21, ISO 2709, MARC21 XML, MODS, METS, PREMIS, BibTeX, SWAP, Dublin Core, ESE and EDM.

The Virtual Library of Polygraphs of the Ignacio Larramendi Foundation takes advantage of the project to create an Ontology for the Semantic Web based on the Virtual Library of Polygraphs which, recognised by the PROFIT programme, was implemented also on the DIGIBIB platform. It should be noted that the Virtual Library of Polygraphs has been recognised as a case study by W3C and Europeana.

In 2008 AENOR certified our research for standardisation processes and interoperability of digital libraries. In fact, virtual or digital libraries that have a DIGIBIB application, use this interoperability very efficiently when they integrate standard type digitisation projects thanks to the METS export and import module.

The logo for DIGIHUB Recolector OAI-PMH. "DIGIHUB" is in red and "Recolector OAI-PMH" is in grey, all in a bold, sans-serif font.

DIGIHUB, harvester and OAI-PMH repository.

In this application, DIGIHUB, with PROFIT recognition, in 2005 and 2006, thanks to the "Open Archive Initiative Protocol Metadata Harvesting Repository and Harvester (OAI-PMH)", the ROAI Directory and Harvester of Digital Resources was implemented in the Ministry of Education, Culture and Sport.

Since 2002 the
PROFIT programme
certified the R+D+I
projects of DIGIBÍS.
Since 2008, AENOR

That directory and harvester of digital resources, at a later stage, became the infrastructure for Hispana and added new features, becoming the current National Aggregator of Metadata. DIGIHUB is the application with which Americanae and other aggregators of autonomous communities also operate.

rove our applications

Hispana, in an internally fully transparent manner, adds metadata from OAI-PMH repositories and is added by international projects, particularly by Europeana. Thanks to this, Hispana is the fifth largest supplier of Europeana metadata and the first among the national ones.

which in turn allows the records to be harvested by a OAI-PMH harvester.

DIGIARCH, as is the case of DIGIBIB and DIGIMÚS, has a way to transparently publish data in Linked Open Data, as in the case of OAI-PMH in accordance to the ontology of the Europeana Data Model.

DIGIARCH®

DIGIARCH, to manage digital archives

DIGIARCH has relied on all of these R+D+I projects, as well as subsequent developments. Among them is the 2010 project, devoted to the new conceptual and functional models of digital objects, and the 2011 "Management of digital objects and metadata in Linked Open Data" project.

DIGIMÚS®

DIGIMÚS, for the digital management of museums, exhibitions and art galleries

The **DIGIMÚS** programme has been developed from the following projects: «Digicloud. Digital heritage in the cloud" of 2012 and certified in 2013, and "Interfaces to consult archives, libraries and museums on the data web", in 2013 and certified in 2014.

The four applications
of DIGIBÍS have
incorporated each
and every one of
the certified R+D+I
programmes

Benefits of the DIGIBÍS applications

All certified projects, either in the PROFIT programme, or by AENOR, provide feedback to all DIGIBÍS programmes, which is clearly seen in the new versions that are released on a regular basis.

For example, the first of our company's applications, DIGIBIB, is being developed in the Computer Science Department, in close contact with the Innovation Department and with the collaboration of the **Ignacio Larramendi Foundation (FIL)**, so that version 10 can be implemented next year.

We have the good fortune of being able to do the testing of the new functionalities in a real user environment thanks to the **Polimath Virtual Library** of the FIL, which for these purposes becomes a beta version of DIGIBIB. ■

This application also features the Open Archive Initiative Protocol for Metadata Harvesting (OAI-PMH) module, which is going to provide very efficient results from this year.

In any case, the files have already a transparent interface that allows the OAI repository to be dynamically updated from the archive database,

AENOR again acknowledges the R+D+I work of DIGIBÍS

In 2016 AENOR again acknowledged the technological innovation work of DIGIBÍS; this time the certification in R+D+I has been for the "Digital Files and Open Data" project related to the development of our DIGIARCH application in its 3.0 version.

DIGIARCH 3.0 means the development of an archives management system that enables institutions to carry out their roles, in the framework defined by Spanish and European law, to ensure

- To provide end-users with a powerful and usable search and retrieval system for all kind of data and documents;
- To contribute to the increase of European and Spanish digital heritage with metadata and quality images, in strict compliance with the regulations of the Europeana and Hispana;
- To create and reuse Linked Open Data in accordance to the Spanish and European guidelines for re-use of public sector data.

DIGIBÍS, the only Spanish company with a programme that supports Cool URIs, content negotiation and RDF in an integrated manner.

the interoperability of services, data and applications in Electronic Administration, transparency in government activities, publication and reuse of linked open data and increase digital documentary heritage.

Objectives of the project

- To organise and manage the historical documentation and that traditionally created on paper and other similar supports;
- To organise and manage digitised documents and their digital preservation;
- To manage the integration and maintenance of electronic and digitised documents created in electronic management systems and permanent conservation;

Recognition of the project by AENOR

As recognised by the AENOR certification: "With this [DIGIBÍS] has positioned itself as the only Spanish company capable of offering a Spanish commercial programme for digital collections that supports Cool URIs, content negotiation and RDF in an integrated manner with the traditional functions of description, indexing, authority control and search and recovery". ■



The Association of Lawyers of Madrid digitises its foundation document

In 2016 DIGIBÍS concluded a second stage of digitization at the Association of Lawyers of Madrid which resulted in 106,098 scanned pages, corresponding to the records that go from the end of the 19th century to 1966.

During this stage it has been possible to scan the original document, adopted in Royal Provision by Philip II and dated in 1596, from the foundation of this Association.

This document, which had been reported as missing until 1996 and that is kept in special conditions, has now been digitised for its preservation and dissemination.

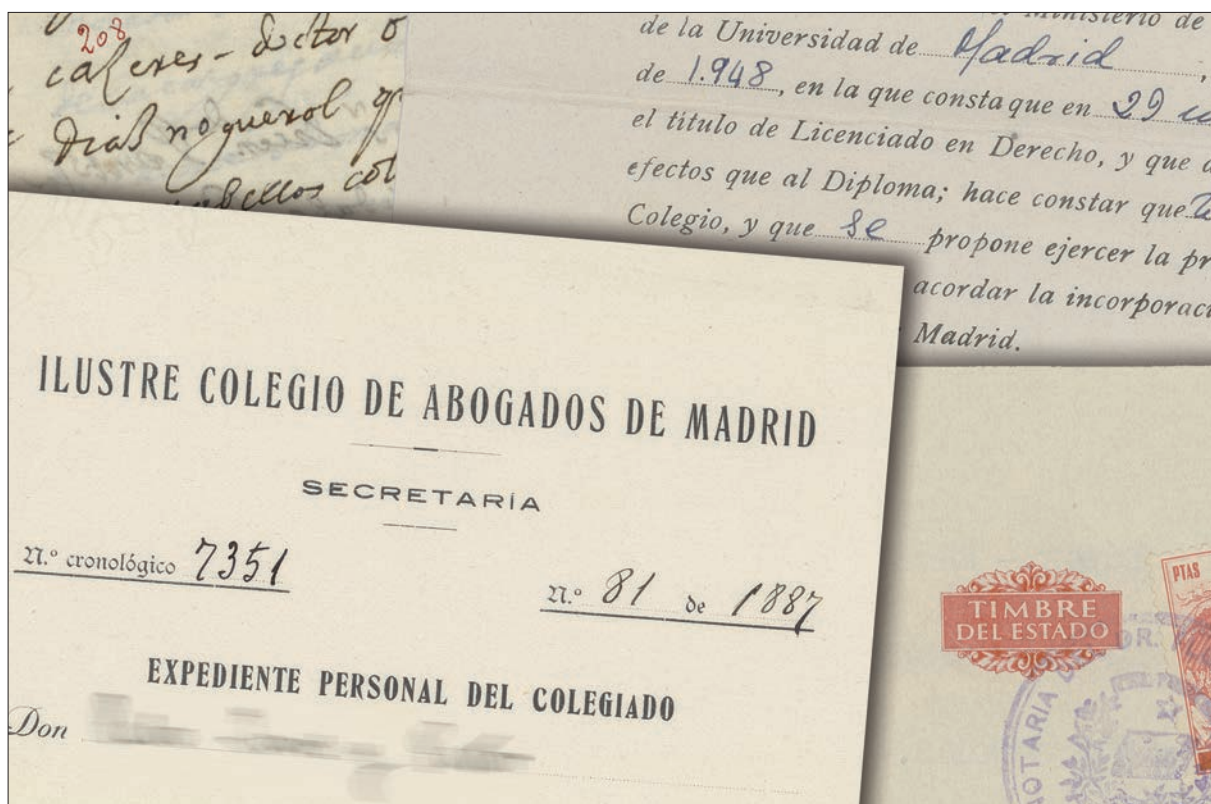
The documents were digitised at the headquarters of the institution with professional zenith scanners that use cold light for their optimum conservation.

Together with the images, DIGIBÍS handed over Dublin Core, ISO 2709 and MARCXML files, all validated with JHOVE.

In the light of the good results, the Association of Lawyers of Madrid has placed its confidence in DIGIBÍS to continue with the digitalisation of its sensitive documentation throughout 2017.

The second stage
of digitisation
in 2016 has resulted
in 106,098 digitised
pages.

The Association of Lawyers of Madrid plans to publish these digital objects on the Web in the near future, with a DIGIBIB 9.1 system with an OAI-PMH repository that allows their harvesting by both [Hispana](#) and [Europeana](#). ■



The Virtual Library of the Province of Malaga is expanding its digital collections

In 2016 the **Virtual Library of the Province of Malaga** expanded its digital collections with 64,000 new images that were digitised by DIGIBÍS: 13 manuscripts, 241 printed monographs and nearly 3800 issues of periodicals.

It is necessary to emphasise the involvement of different provincial institutions in lending their collections to the Virtual Library of the Province of Málaga: the San Zoilo Library and the Municipal Archive, both from Antequera, the Economic Society of Friends of the Country, from Malaga, or the Cánovas del Castillo Public Library.

The latter is making a major effort for preservation and dissemination of the so-called "Temboury Legacy", an essential photographic and bibliographic collection to get to know the art and the monumental heritage of the province of Malaga.

All images in this project were delivered in TIFF, JPEG and PDF format, accompanied by the corresponding METS files, which also contained, the PREMIS metadata (for preservation),

METSRights (for property), and MIX (technical metadata). In addition, DIGIBÍS applied an OCR (Optical Character Recognition) process to the images, through which ALTO files were generated, which allow the search to full text in the documents. All the material was validated with JHOVE.

The work followed all the steps that DIGIBÍS applies for advanced digitization, thanks to which, all digital objects added to the Virtual Library of the Province of Malaga could be harvested automatically and are now also accessible in Hispana and Europeana.

The Virtual Library of the Province of Malaga, promoted by the Delegation of Culture and Sports of the Provincial Government of Málaga and managed from the Cánovas del Castillo Library, aims to collect, preserve and disseminate, through the Internet, the digital collections of the Bibliographic Heritage of Malaga, not subject to copyright. It uses our **DIGIBIB** software upgraded to 9.1 version. ■



The Bank of Spain Library continues digitising its documentary history



Award winner of a four-year contract for the digitisation of works from the bibliographic collection of the Bank of Spain Library, in 2016 DIGIBÍS digitised a total of 149,692 images for this first stage of the 27,000.

Among these should be highlighted the digitization of the Reports of the Spanish Bank of San Fernando, which was continued by the former Bank of San Carlos that in 1856 changed its name to the current Bank of Spain.

The project will continue next year with the digitization of 210,000 new images.

The magnitude and importance of the project, whose digitization volume will be around one million pages, is enormous if we take into account the importance of this institution and its bibliographic collection, composed of more than 326,000 volumes, many of them of great interest.

Its value as a source of information on economics, politics and law, often linked to its unique character and to consultation require-

ments together with that demanded by its physical preservation, has meant that the Bank of Spain has considered necessary to digitise them with the intention that we have already mentioned: their preservation and dissemination on the Web.

Of the 106,098 digital objects, in addition to the relevant images DIGIBÍS delivered the Dublin Core, ISO 2709 METS, MODS and MARCXML files, all validated with JHOVE.

The tracking page, already mentioned in our previous issue of DIGICLIC, has been of great importance to maintain coordination and good understanding between the Institution and DIGIBÍS. Both have remained in constant contact in order to solve queries, to obtain the best possible results and meet to deadlines.

For 2017 the Bank of Spain has planned to publish all these digital objects on the Website, in a way that they can be harvested by Hispana and Europeana. ■

DIGIBÍS, Innovative SME

In the summer of 2016, DIGIBÍS obtained the seal of Innovative SME, a prestigious accreditation awarded by the Ministry of Economy and Competitiveness (MEC) through the Secretary of State for Research, Development and Innovation, which represents the entry in the Register of the innovative Small and Medium-Sized Enterprises of the Directorate General for Innovation and Competitiveness of the Ministry.

One of the problems
with our Science,
Technology and
Business system is the
reduced number of
innovative enterprises

The distinction, regulated in the Order ECC/1087/ 2015 of 5 June, is granted to those SMES that meet any of the conditions laid down in the heading "Scope of application" of that Order. DIGIBÍS is encompassed in paragraph "b) companies that have demonstrated their innovative character, through their own activity.", and in its point 2: "for having obtained, in the three years prior to the right for this allowance, a reasoned binding positive report for the purposes of applying the deduction referred to in Article 35 of the Law 27/2014, of 27 November, for Corporate Tax".

Policy of support and encouragement

The Order is not only to issue the seal of innovative SME, but also stipulates the creation and reg-



INNOVATIVE SME

Valid until Dec 31st 2018



ulation of the operating of a public register for innovative SMES by the Ministry of Economy and Competitiveness. In this way, it allows them to be valued, encourages their identification and assists in specific policies being drawn up for them.

With this initiative of Innovative SME logo, the MEC wants to support and encourage the SME sector to be engaged full or part time in R+D+I, as in the case of DIGIBÍS.

Although in Spain SMES represent, in the same way as in the European Union, 99% of the business fabric, and their contribution to the gross value added of our economy is 68%, which exceeds the European Union average, one of the problems with our Science, Technology and Business system is the reduced number of innovative enterprises, especially small and medium-sized enterprises. ■

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