## ALIADA tool

ALIADA (ally in Spanish, female genre) **automatizes the publication in the Linked Open Data cloud** of datasets hosted by different Library or Collection Management Software.

ALIADA supports the whole life cycle of reuse of multilingual open data from public museums and libraries, providing a usable and **open source tool** that automatize the selection, publication and linking of datasets in the Linked Data Cloud.

ALIADA will be a plugin **for the library and collection management software as well as for CMS (Content Management Systems)**, initially for the ones developed by the SMEs in the Consortium and already installed in the public bodies involved in the project.

**Usability** in ALIADA solution will be a key aspect, as the final users will have little or no experience in Linked Data technologies and processes.

ALIADA is **multilingual**: English, Spanish, Italian and Hungarian are the initially foreseen languages.

ALIADA provides a **unique access point** to the published datasets. Such access point will offer a RESTful interface that can be invocated from multi-device platforms willing to use the linked datasets for innovative applications.

ALIADA relies on existing **library and museum standard:** initially MARCXML and LIDO. These two standards are widely established in libraries and museums, respectively.

ALIADA performs **semantic treatment** of textual content for enrichment, via natural language processing, with relevant entities (named entities) recognition and extraction, for linking to appropriate open datasets, for reasoning to retrieve additional semantic information based on named entities and inferring additional knowledge.

ALIADA makes possible libraries and museums **interoperability,** so they can share their collections by means of the linked open data cloud, allowing new interaction experiences for the general public and enriching existing open data.

## ALIADA users

ALIADA users are **IT staff, documentalists, curators and librarians** in institutions that own datasets managed by library and/or museum management software and willing to open such datasets to the world.

## ALIADA Community

A key objective in the project is to open ALIADA to library or collection management software developers and to cultural institutions communities, generating high impact through demonstration of capabilities of ALIADA and subsequent possibilities, easing open data publication under Linked Data paradigm.

The community will be made up cultural heritage institutions (libraries and museums) that manage datasets using software tools and willing to open them to the world.

ALIADA Project Consortium will maintain a virtual meeting place for all the professionals interested in being part of the ALIADA community:

### http://aliada-project.eu/community

**Automatic Publication Under Linked Data Paradigm of Library Data**

## Linked Open Data from libraries and museums

**Libraries and museums** are memory institutions, both strive to preserve cultural heritage and provide universal and equitable access to information about it to people, communities and organizations. Such **High Quality services** help guarantee that access. So, they often share the same users.

As memory institutions which preserve the cultural heritage, documents and objects, both were created in the same cultural context or period, sometimes by the same agents, and they provide evidence of comparable cultural features.

**Local information and heritage** are particularly interesting to the web community because often they are not accessible by web search engines and, therefore, this information and objects are not open to the world. This is because museums and libraries have their own data codification and representation method.

If that information and objects were open or accessible by standard web applications, these local institutions could **be more efficient** because they could reuse related published information and datasets from the web to describe and catalogue their collections. Also, semantic web and open access to this information would **avoid geographical access and language limitations** to information and heritage around the world.
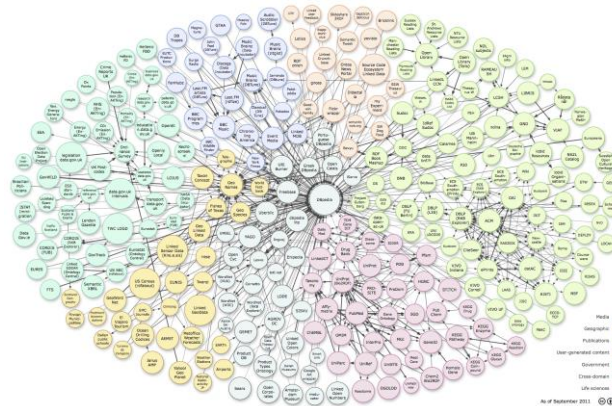
## ALIADA Project

To overcome the limitations of current Library or Collection Management Software when sharing contents from libraries, archives and museums, ALIADA proposes the accomplishment of a tool implementing a novel approach to **automatically publish, under the Linked Data paradigm**, the contents they host**.**

Thus, libraries and museums will achieve contents interoperability and thereof will add value to the collections and stored funds, favouring the reuse of public data, opening it to the world in a format that can be processed by machines and linked to other existing datasets.

ALIADA tool will be **an extension of library and museums systems** (ILS and CMS), offered as an open source tool, allowing expansion and customisation by third parties and taking into account usability aspects from the point of view of users, companies and institutions that will adapt it.

ALIADA **will expose museums and libraries' collections** through linked data paradigm using ontologies, based on FRBRoo (that includes CIDOC-CRM). This will make possible connections with other linked open datasets, such as **DBpedia**, **VIAF** or others hosting bibliographic and cultural heritage data, and the development of new applications that make use of the interoperability and inferring capacity of this technology.



**Linking Open Data cloud diagram, by Richard Cyganiak and Anja Jentzsch.** http://lod-cloud.net/

# Project Consortium

**SCANBIT**
ILS & Library Services
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**TECNALIA**
Research & Innovation
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**@CULT**
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Contemporary Art
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