Project Acronym: **LoCloud**

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Report on the content delivered to Europeana

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1   Introduction

LoCloud aimed to contribute to the body of content in Europeana for the local heritage by enabling smaller cultural institutions to contribute the rich diversity of content that they hold – from monument descriptions, historic buildings, maps, images, local history archives, museum objects to locally significant documents.

The project set out to deliver four million items of content to Europeana. The project's approach was to involve national and regional aggregators, and individual cultural organisations with the capacity to deliver their own collections and to involve small and medium sized institutions from their networks in the project.

The project has successfully delivered to Europeana 4,139,558 metadata records representing around 6.7 million digital objects.

The content comprises of 329 separate collections from 27 countries representing content from 6-700 separate institutions (including a small number of private individuals). The institutions involved are very diverse and include amongst others:

- 85 state-funded local museums in Denmark,
- 245 small museums, special collections, church and other archives from Belgium,
- 528 archaeological units and local societies in the UK,
- 5 house museums and special local collections from Umbria in Italy
- 30 local museums and libraries in Spain,
- 60 institutions in Cyprus ranging from municipalities and communities, to the archives of the police force, post office and tourist board.

The items represented are as diverse as the organisations involved and range from local treasures to internationally renowned objects, from church registered to letters from famous artists, from photographs of historic monuments to 3D models, from still images of local life to video recordings of interviews, from maps and plans to drawings and paintings, and much more.

This report provides an illustrated overview of the content that has been delivered by LoCloud's partners to Europeana.

2   Norway: National Archives (NRA)

Norway has a relatively small number of cultural institutions, which are almost all consolidated and belong to an existing national network.

Norway already has a large national infrastructure for publishing material to Europeana in place, but it comes with a high price tag in form of required technical competence and manpower. The main provider to Europeana is Norvegiana, the Norwegian "Europeana", which is administrated and operated by the Arts Council of Norway.

The National Archives of Norway presented the LoCloud infrastructure as an alternative route for smaller institutions and private individuals with material of interest to the public, which otherwise would have remained undiscovered. It has always been very important for NRA to stress that it doesn't want to be perceived as disloyal or to come in to conflict with the established channels.   So it has collaborated with Norvegiana, organizing workshops, conferences, and presentations together, promoting the LoCloud project in the various communities they represent. Norvegiana has shown interest in some of the tools developed by LoCloud, especially in MORE and MINT.

The National Archives of Norway is considered to be a large institution in Norway and has good access to the established formal organizations and sub-organizations. But it doesn't have access to the informal networks, existing outside the established network. So it has tried to spread the word to reach the inaccessible potential users.

The Norvegiana route to Europeana is affordable for the majority of the organisation in Norway, in terms of money, but knowledge and skills are still required. Hence, the main target group for NRA's campaign were the small standalone organizations and individuals. These are often administrated and organised by enthusiasts with a lot of knowledge about very specific areas or domains and they have lots of interesting materials. But without knowledge of cataloguing, collection management, metadata, standards and software it is difficult for small institutions and individuals to get this material published locally, nationally or to Europeana. They don't have the time or interest. The threshold is too high.

NRA managed to attract the attention of some small organizations including some with an international focus. These are institutions outside of the formal networks. They work in very specialized sub-domains with custom needs and custom software. And some institutions, for various reasons, simply want to stay outside of the main systems. It's been a long process to reach these groups, but NRA has been active and contacted key individuals, first giving an overview of the project's goals and the tools. Then organizing training workshops for them and by acting as local support, helping all new participants both in preparing collections and publish them in Europeana.

NRA planned to deliver 1 million items to Europeana, by the end of the project it had actually delivered 3,177,304 items.   Much of the content was delivered from the National Archives' collection including the Petroleum Archives, the Women's voting rights anniversary 2013 archive and a collection of letters from the most popular Norwegian musician Edvard Grieg. This collection was scanned, digitized and made available in Europeana through LoCloud. In addition NRA provided a selection of miscellaneous pictures, and mortgage registers and census documents. Local content partners provided maps, Edvard Munch's writings, a collection from

the native people's festival Riddu Riddu and a collection of images by the photographer Paul Maeyaert.

Some highlights from the collection are illustrated below.
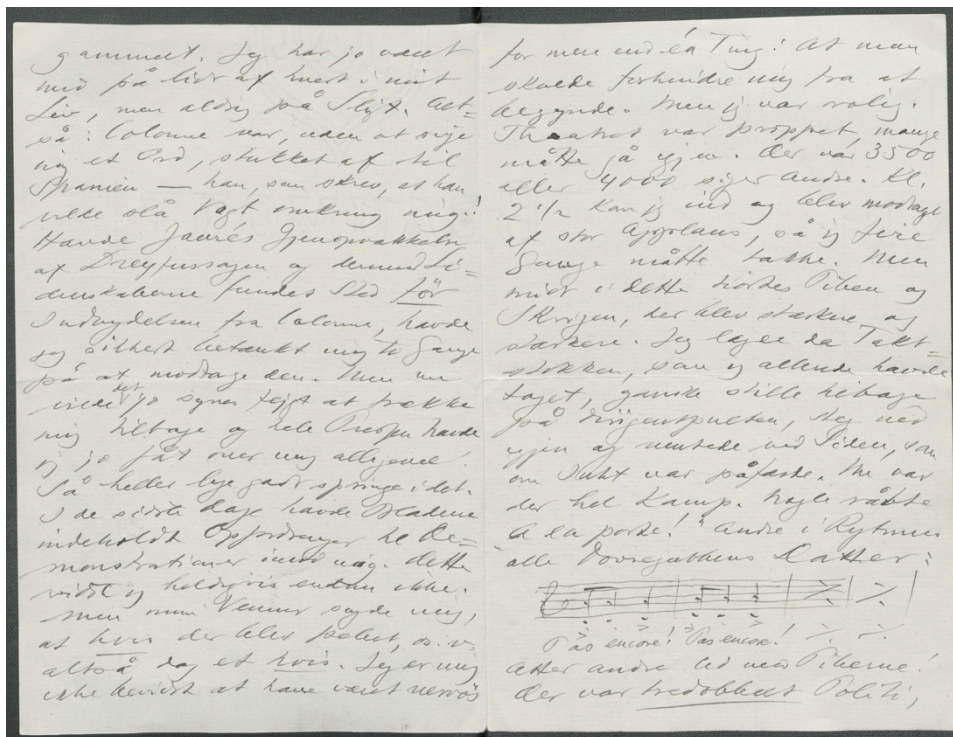
A letter from Edvard Grieg to Frants Beyer, where he explains the rhythm of some of his music scores

Riddu Riddu, the Native's people festival in North Norway, 1996

10 km cross-country skiing competition at the World Championships in Oslo, 1966; it was only the 4th time women could participate

3   Poland: Poznań Supercomputing and Networking Centre (PSNC)

PSNC is affiliated with the Institute of Bioorganic Chemistry of the Polish Academy of Sciences. As well as providing a computer infrastructure for science and education in Poland, PSNC has been building a national digital libraries infrastructure. It develops digital libraries software, e-learning resources, knowledge management systems, digitisation process management and long-term preservation services, and data sharing and aggregation services.

PSNC acts as an aggregator for Europeana, and in LoCloud it collaborated with a number of local institutions to provide content. The institutions include:

- Ośrodek "Brama Grodzka - Teatr NN" – the multimedia library of this theatre holds digital objects related to history, culture and art of Lublin and its region as well as the theatre.
- Polska Akademia Umiejętności– the academy holds scientific and artistic collections including the graphics collections; special sollections and photographic collections.
- Centralna Baza Judaików - the Museum of the History of Polish Jews launched the Central Judaica Database, a project to digitalize Judaica collections scattered through Polish museums, archives and private collections. The first phase of the project consisted in digitalizing selected items from museum's own collection, the collection of the Jewish Historical Institute and other institutions and museums whose collections include Judaica, including: Muzeum Regionalne in Łęczna, Muzeum Historyczno-Archeologiczne in Ostrowiec Świętokrzyski, Państwowe Muzeum Archeologiczne in Warsaw, Muzeum Niepodległości in Warsaw, Association of the Jewish Historical Institute of Poland, Castle Museum in Łańcut, Museum of Kresy in Lubaczow and Muzeum Pojezierza Łęczyńsko-Włodawskiego in Włodawa. Items include family mementos, photographs, documents, items of daily use, letters and memoirs.
- Muzeum Okręgowe w Lesznie – the regional museum in Leszno.
- Muzeum Sztuki w Łodzi /- the Art Museum of Łódź.

A total of 91,039 items were delivered to Europeana via LoCloud. Some highlights from the collection are illustrated below.
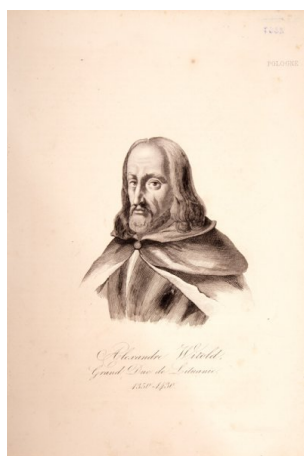
Examples of content from Regional Museum in Leszno and Museum of Art in Łódź

(Above) Examples of content from Central Judaica Database

(Above) Example of content from Polish Academy of Arts and Sciences

(Above) Example of content from NN Theatre

4 Spain: Ministerio de Educacion, Cultura y Deporte (MECD)

MECD worked with local museums and libraries from across Spain to help them to provide content to Europeana via LoCloud.

One of the largest collections came from the Federación para la Etnografía y el desarrollo de la Artesanía Canaria (the Federation for the development of Ethnography and Crafts on the Canary Islands).

An international workshop in Madrid in September 2013 and widespread dissemination promoted the LoCloud project in Spain and encouraged participation by local institutions.

MECD delivered 117,328 metadata records for local cultural content to Europeana; these records point to more than 150,000 digital images. Some of the highlights of the collection are illustrated below.

A Coruña Museum of Fine Arts (Galicia): *The Cathedral of Santiago el Menor* **(Liège). Genaro Pérez Villamil, 1850 ca.**

Images from Federation for the development of Ethnography and Crafts on the Canary Islands

5 Denmark: Kulturstyrelsen (KUAS)

The Danish Agency for Culture (KUAS) is an agency under the aegis of the Danish Ministry of Culture, established on 1 January 2012. The agency is a merger of three former agencies: The Danish Arts Agency, the Heritage Agency of Denmark, and the Danish Agency for Libraries and Media.

KUAS acts as a national aggregator for museum information and maintains two national databases: The Museums Collections and Art Index Denmark. The databases hold information on cultural historic objects and works of art from all the Danish state-recognised local museums as well as from the State museums.

The content that KUAS has delivered to Europeana via LoCloud comprises 249,010 items. The collection includes a diverse range of museum and art objects, plans and drawings, archives and images. Some items from the collection are illustrated below.

Søkort, New Foundland, 1890s, Ærø Museum, CC BY

**Dominospil, fundet i genbrugsbutikken, Ærø Museum, CC BY**

Skab, hængeskab, Ærø Museum, CC BY

# 6 Romania: Biblioteca Judeţeană „O.Goga" Cluj (BJC)

The Biblioteca Judeţeană 'O.Goga' Cluj (BJC) is one of the biggest public libraries in Romania. Thanks to its dynamic and pro-active attitude and to its openness to new challenges, the library plays a distinct role in the cultural life of the Cluj city.

Currently, the library includes a main building and three branches located in the main neighbourhoods of the town.
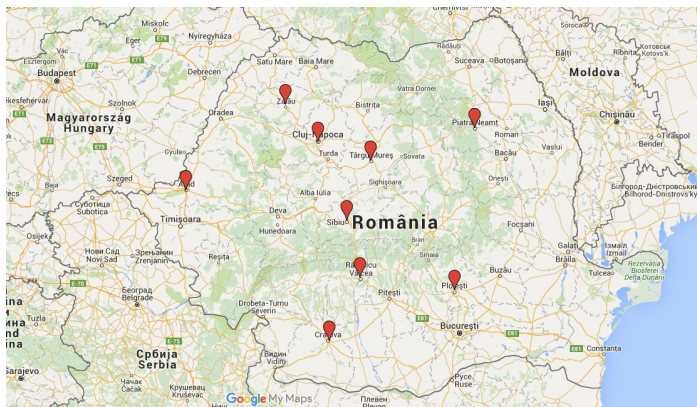
Within LoCloud BJC has collaborated with eight public libraries in Romania. Together they have delivered 5,383 items of content to Europeana via LoCloud.

Some documents from a small museum, the Memorial House of Emil Isac (which opened in 1954 and closed in 2001), are illustrated below.
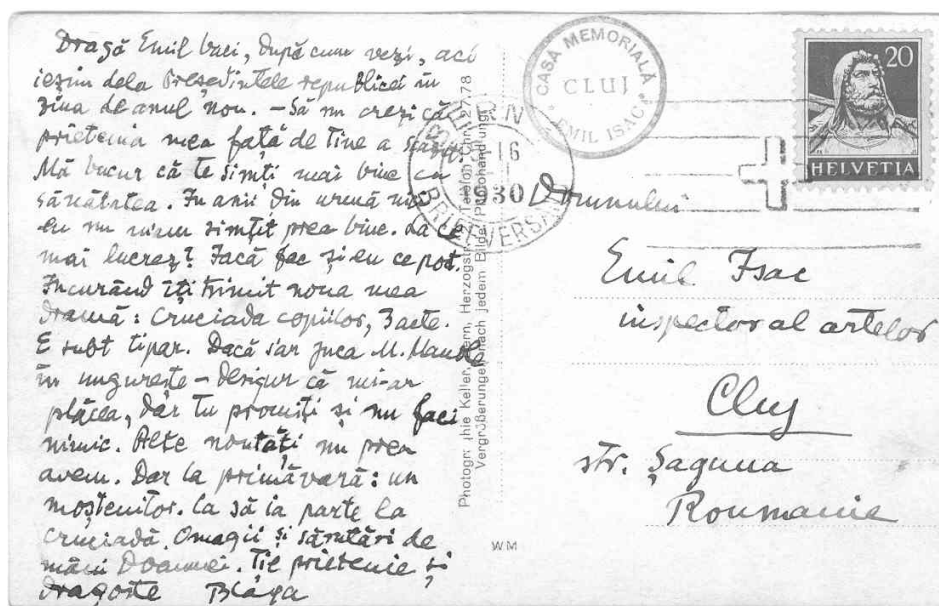
Postcard to Emil Isac

The documents in Emil Isac`s personal collection have not only an intrinsic value for research and education but value as a memorial in context of the museum which today no longer exists. The museum was dissolved in 2001 because when the former owners claimed the building; part of the furniture and documents were given to the "Octavian Goga" Cluj County Library by his successors. The LoCloud project offered a chance to enhance and promote this documentary archive, which is valuable and interesting in all its components.

Image from the Emil Isac archive

7 Netherlands: Rijksdienst voor het Cultureel Erfgoed (RCE)

Rijksdienst voor het Cultureel Erfgoed (RCE) is part of the Ministry of Education, Culture and Science the Cultural Heritage and is a research institute and centre of excellence on monuments, historic buildings, Archaeology, landscape, and fine and applied arts. During LoCloud, RCE has focussed on preparing its collection of archaeological reports, the Historic Cultural Landscapes dataset (CultGIS) and working with a small museum at Wijchen to prepare their Bloemen collection.

The collection of Archaeological Reports from the National Service for Archaeological Heritage (formerly known as ROB, now RCE) contains around 21,000 reports relating to excavations by ROB and RCE, and also commercial archaeological companies with a license to perform excavations in The Netherlands. Electronic copies of the reports are held in the e-depot for the Dutch archaeology managed by KNAW-DANS. CultGIS is a geographical dataset, which shows the boundaries of cultural sites.

RCE collaborated with the Kasteel Museum in Wijchen, who developed their dataset using LoCloud Collections. The dataset is an archaeological collection created by an architect in Wijchen called Bloemen. Bloeman owned a vast collection of archaeological artefacts from the region Wijchen, ranging from the Neolithic to the early medieval period which today is displayed in the Kasteel Museum Wijchen. About 60% of the collection (800 objects in total) has been digitized, publication online is still pending largely due to the availability of funding, time and personnel.

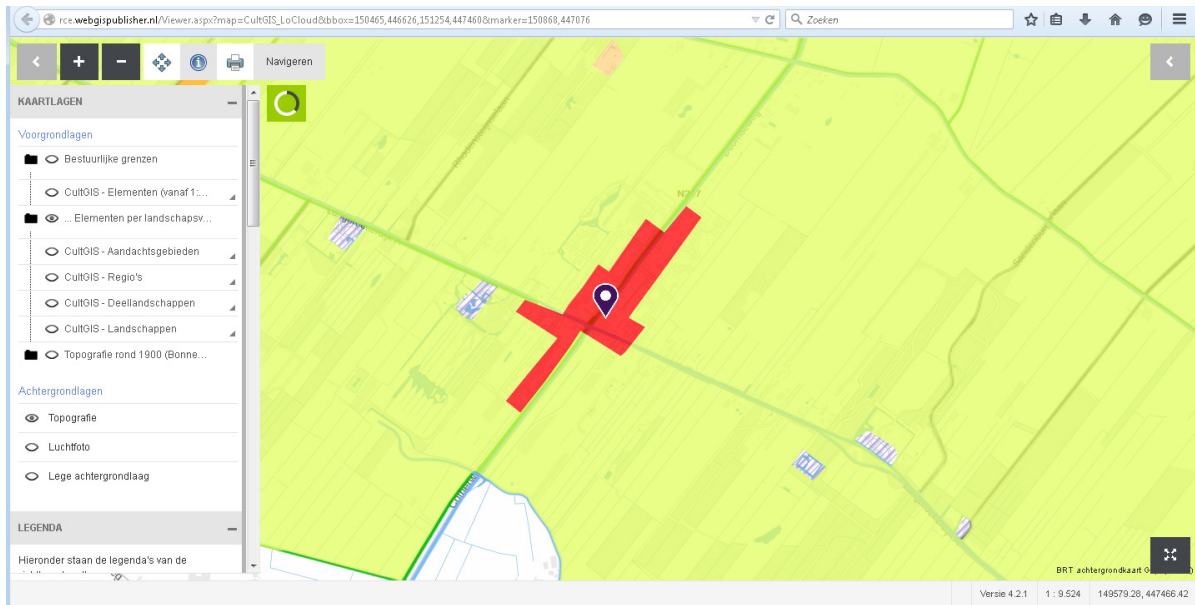Some highlights from the collection are illustrated below.

Collection highlights

Archaeological publications ROB 1975, Dorestad

A Roman amphora (2nd century AD) from the Bloemen collection, Wijchen

Settlement area of Langbroek (example of CultGIS).

8 Czech Republic: Národní Památkový Ústav (NPU)

Národní Památkový Ústav (NPU) is the statutory national organization funded by the Ministry of Culture of the Czech Republic responsible for the care of monuments. NPU manages an Integrated Information System, which contains several databases, digital documents, a Geographical Information System and the Central List of Cultural Monuments.

At the beginning of LoCloud, NPU planned to provide selected photographs and plans from its database Significant Archaeological Sites (Významné archeologické lokality - VAL). This database was not a part of the Integrated Information System of Monument Care, so the data needed to be transformed. The process involved working out GIS identifiers and mapping the native metadata to the Meta-information System. The work resulted in 8634 items being delivered to Europeana via LoCloud.

NPU also prepared an update to the collection that it provided to Europeana via the CARARE dataset, this served as a test dataset for the new LoCloud content as the NPU repository was adapted to provide an export in the new version of the CARARE metadata schema. The update resulted in around 125,000 records being added to NPU's CARARE collection in Europeana.

Under LoCloud, NPU cooperated with the Association for the Renewal of the Village and the Small Town (Společnost pro obnovu vesnice a malého města – SOVAMM). SOVAMM's[1] main aims are to study, document and help to protect individual buildings and whole historic sites including their neighbouring landscape. SOVAMM stores documents, mostly photographs, relating to vernacular architecture. Some were already held in NPU's information system, and were added to as part of LoCloud. NPU worked with SOVAMM to solve IPR issues and supported the process of providing metadata for harvesting via the NPU OAI PMH repository and MINT and MORE.

Some highlights from NPU's collection are illustrated below.

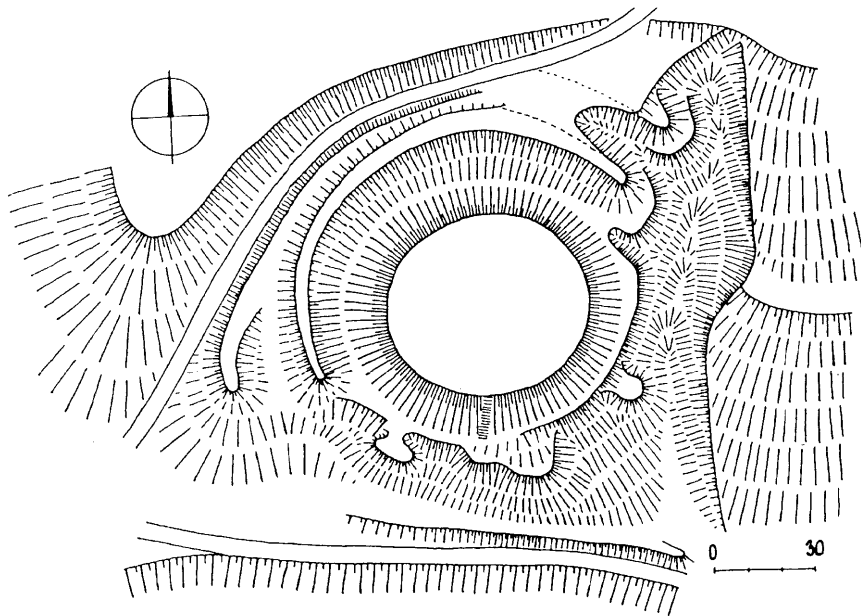**Ubušínek, country house No. 1 and No. 42, photo by Zuzana Syrová, 2006**

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[1] https://sovamm.wordpress.com/about/about-sovamm/

Boskovice, castle ruins, photo by Petra Dohnalová, 2007

Bučovice, former castle, field sketch by Miroslav Plaček, 2001

9   Lithuania: Vilniaus Universitetas (VUFC)

Vilnius University Faculty of Communication (VUFC) cooperated with The Society of Lithuanian archaeology to help it to provide content to Europeana via LoCloud. The society[2] is an independent voluntary scientific organization uniting archaeologists and members of the public to preserve, study, manage, and popularize the archaeological heritage.

The Society hosts digital archaeological collections. Its collections of photographs of Lithuanian hillforts and of Lithuanian castles and fortified sites were provided to Europeana via LoCloud.

Hillforts are some of the best known and the most beautiful archaeological monuments in Lithuania. In total there are around one thousand of these early defence fortifications. They are usually the major element in a complex of archaeological monuments.   The database of Lithuanian hillforts indicates their location, provides a description, a record of the present appearance, details of research investigations and historical facts about the site.   Map coordinates are available enabling each hillfort to be located on a map.

Kernavė archaeological site (UNESCO World Heritage site). Photo by Zenonas Baubonis, 2007.

The second collection provided by the Society of Lithuanian archaeology represents Lithuanian castles and fortified sites. Medieval brick castles were constructed in strategic locations along the rivers and near the political heartland of the country (Vilnius). The reconstructed castle on Trakai Island is the most popular day-trip from Vilnius. The database of fortified sites and castles is still under development and captures only some of these archaeological monuments; more information will be provided in the future.

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[2] http://www.lad.lt/

Browsing images for Kernavė archaeological site in Europeana

VUFC provided support to the Society of Lithuanian Archaeologists in the processes involved in providing content to Europeana. The Society was responsible for preparing and providing content on its local database and for publishing it on its website. VUFC carried out the technical work (exporting metadata in XML, metadata mapping in MINT, aggregating on MORe, and publishing to Europeana. In total 18,081 images were made delivered to Europeana.

**Town of Trakai. Photo by Zenonas Baubonis, 2007.**

10 UK: Archaeology Data Services (UoY-ADS)

To reflect LoCloud's focus on small to medium sized institutions, ADS provided content for harvesting from small projects and organisations including contributions from individuals. The content provided included:

The **Proceedings of the Society of Antiquaries of Scotland**, which date from 1851 to the present.

The **Star Carr Archive**, which includes images from archives held in both large museums (the British Museum and the Natural History Museum) and also smaller museums (the Cambridge Museum of Archaeology and Anthropology, the Scarborough Museum, the Whitby Museum, and the Yorkshire Museum).

The **Wessex Archaeology Image Archive**, which includes images from regional and local archives and museums, including the Salisbury and South Wiltshire Museum, Wiltshire Heritage, Hampshire County Council and Wiltshire Council.
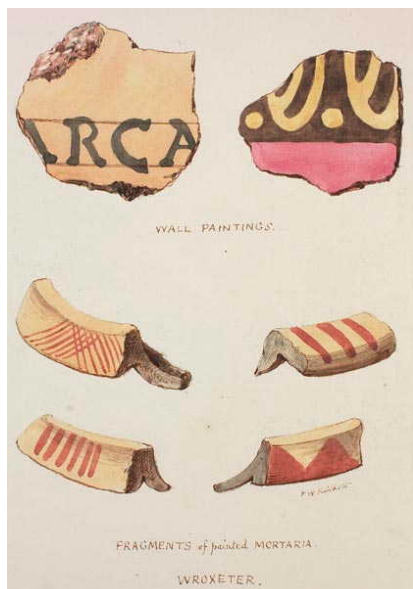
The **Society of Antiquaries of London Catalogue of Drawings and Museum Objects**, which is regarded as the most important national collection of historic drawings of portable antiquities found in Britain.

(Left) Society of Antiquaries: Pieces of painted wall plaster and slip-decorated sherds from Wroxeter. Drawn by Frederick William Fairholt in the 19th century.

The **Grey Literature Library**, which is a growing collection of unpublished reports produced following archaeological fieldwork and deposited with the ADS by 528 organisations ranging from commercial archaeology units to small community groups. This collection was first provided to Europeana during the CARARE project in 2012; the collection was updated under LoCloud adding over 10,000 new reports.

In total ADS provided 36,120 items of content to Europeana via LoCloud from more than 539 organisations. The organisations are spread all across the UK, primarily in England and Scotland.

(right) Star Carr Archive – Scarborough Museum: Photograph of Mesolithic barbed point made from red deer antler.

11 Slovenia: Institute for the Protection of Cultural Heritage (IPCHS)

IPCHS cooperated with its Restoration Centre and the Ministry of Culture. The collections provided to Europeana via LoCloud included a restoration database for works of art, an archaeological research database for the protection of monuments and an important professional journal "Protection of Monuments".

Over 35,000 items of digital cultural content were delivered to Europeana by IPCHS during LoCloud. Some highlights from the collection are illustrated below.

Furniture from Sneznik castle, IPCHS Restoration Centre

Restoration of Church, Restoration Centre

12 Belgium: Provincie Limburg (PL)

Provincie Limburg delivered content to LoCloud via Erfgoedplus.be, which it manages as a regional aggregator for small cultural institutions in its region. Erfgoedplus.be began life in 2006 and collects data from the inventories of heritage collections in the Limburg and Vlaams-Brabant provinces of Belgium. The data is presented in www.erfgoedplus.be, and are available for harvesting via in an OAI-PMH repository.

By February 2016, 57524 items had been delivered via Erfgoedplus.be from around two hundred and eighty small cultural institutions including museums, archives and church archives. Approximately 250,000 place names were also provided to the Historic Place Names service.

A snapshot of some of the content delivered by Provincie Limburg to Europeana is illustrated below.

13 Slovenia: Zavod Jara

Zavod za razvoj knjižnic (Zavod Jara) cooperates with public libraries, museums, archives, local associations and civil groups across Slovenia. Zavod Jara has more than 65 partners who contribute content to the Kamra portal. Content added to Kamra between 2013 and 2015 was provided to Europeana via LoCloud. User generated content held in Kamra's Album Slovenije was also provided to Europeana.

Regional Archive Nova Gorica: Russian prisoners building the road from Lok to Ravnica during the First World War, circa 1917

Regional Museum Kranj: The Aljaž tower on the top of the highest mountain in Slovenia, Triglav, 1902

User generated content - The first kindergarten in Stojnici during the Second World War. 1942

14 Greece: Future Library

Future Library has been collaborating with public libraries in Greece disseminating about LoCloud and offering training and support on digital library concepts. It evaluated digital content held by Greek public libraries to identify potential new data providers for Europeana.

Future Library worked with the Papacharalampeios Public Central Library of Nafpaktos and the public library in Drama supporting them as they uploaded content to LoCloud Collections and in publishing it to Europeana. By the end of the project, 719 items of content were delivered to Europeana.

The collections include a lot of local newspapers from the late 19th and early 20th century, which are very significant for the local history. Figure XX below illustrates one such item.
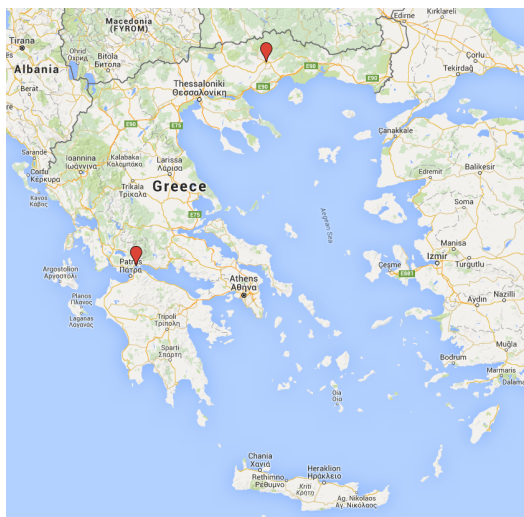
Nafpaktos Library: Taxydromos of Patras, Newspaper, 1898-10-06.

15 Portugal: Fundação Museu Nacional Ferroviário (FMNF)

FMNF (the National Railway Museum of Portugal) evaluated digital content for its museum collection and prepared this for publication in Europeana via LoCloud. The process involved digitization, metadata description, metadata enrichment and publishing the content online.

FMNF worked to identity potential new digital collections among Train companies and Train Associations organised by enthusiasts. It also presented LoCloud to House Museums in Portugal. Many of these institutions are beginning to digitise their collections but are not yet ready to publish their content. Some are interested in the possibility of using LoCloud collations to publish their digital content in Europeana.

FMNF organised a workshop in February 2016 to raise awareness among Portuguese Heritage institutions about new developments in harvesting, aggregation, the cloud and LoCloud results, with particular focus on LoCloud Collections Service.

Around 2,500 items from FMNF's museum collection were delivered to Europeana. Some highlights from the collection are illustrated below.
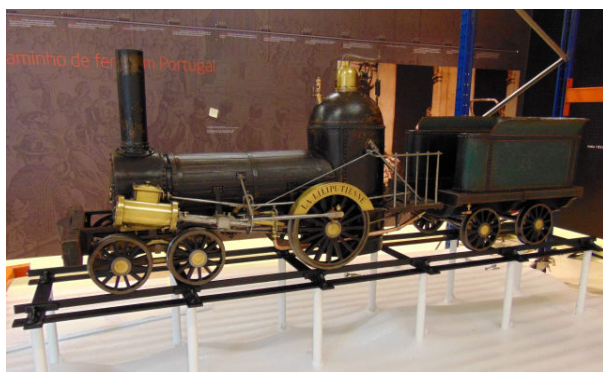
MC.BRI.0003.01: Model Locomotive. Locomotive Liliputienne.

Steam locomotive belonging to Louis Philippe, king of France and offered by the King to the Portuguese royal family. 19th Century.
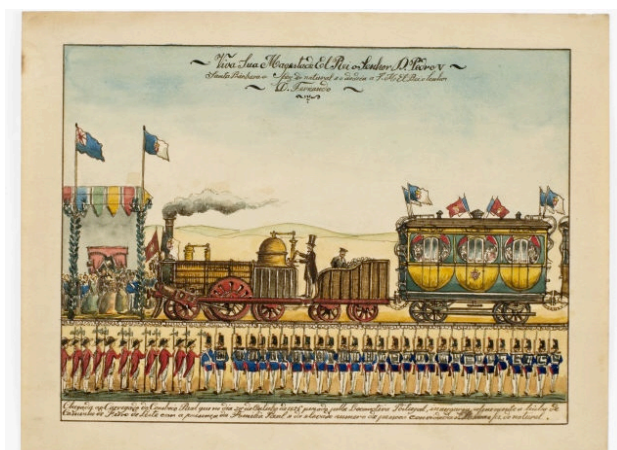
FMNF/ENT/000978: Watercolor. First journey of the Royal Train; the arrival at Carregado on October 28, 1856. 19th Century

16 Austria: Angewandte Informationstechnik Forschungsgesellschaft mbH (AIT)

AIT has worked to raise awareness about LoCloud amongst cultural institutions in Austria, through the annual conference "Digitale Bibliothek – Cultural Heritage in the Cloud" held in Graz and by other activities including contributing to the "Handbuch Kulturportal" (Handbook on Cultural Portals) published in autumn 2015.

During the project AIT has approached a number of cultural heritage institutions about the possibility of contributing content to Europeana via LoCloud. Each of these institutions used different existing cataloguing tools to make their metadata available for harvesting.

The Universalmuseum Joanneum, the Don Juan Archive and the University, County Library Tyrol and the University Library of Vienna have all provided content to Europeana. At the time of writing 43,214 items have been delivered to Europeana. The county library of Styria and the Europa Nostra Archive both plan to deliver content to Europeana in the near future using LoCloud's aggregation services.

Some highlights from the collection are illustrated below:

A pearl necklace from the Hallstatt period (8th to 6th centuries BC) found in the Interarch excavation project from the Landesmuseum Joanneum, Styria.

Drawing of Andreas Hofer, leader of the Tyrolean Rebellion against the French and Bavarian occupation forces, from the book *Andreas Hofer und seine Kampfgenossen,* **by Hans Schmölzer, contributed by the University and County Library Tyrol.**

Academic dress of a lawyer from the 15th century contributed by the University Archive from Vienna, via the University Library of Vienna dataset.

Drawing of a student during the revolution of 1848, contributed by the University Archive from Vienna, via the University Library of Vienna dataset.

17 Sweden: ABMR Stiftelsen Länsmuseet Västernorrland

ABMR collaborated with the National Archives in Härnösand, Västernorrland County Museum and Västernorrland County Library in LoCloud. Several non-profit associations in mid Sweden also participated. ABMR owns the regional heritage portal, which is both a technical hub and a public online service. It is open for contribution from both associations and individuals.

The content provided by ABMR to Europeana via LoCloud is a mixture of material from all those partners. It aimed to test different types of digitised objects representing different external partners and to provide these via the regional portal, with the regional backbone developing from a dark provider to a cloud-service.

Some partners were not able to contribute as much content as they originally hoped, while other contributed more than expected. As a result of LoCloud, partners in the region will continue to add records to the regional portal and in this way provide content to Europeana.

Collection highlights

Here are some items highlighting ABMR and partners' content provided to Europeana:

Barrel for production of fermented herring, Ulvöarnas museum, object.

Guests at Ulvö Hotel, Ulvöhamn, image from documentary movie 1917.

The Medicine History museum, Härnösand, Image.
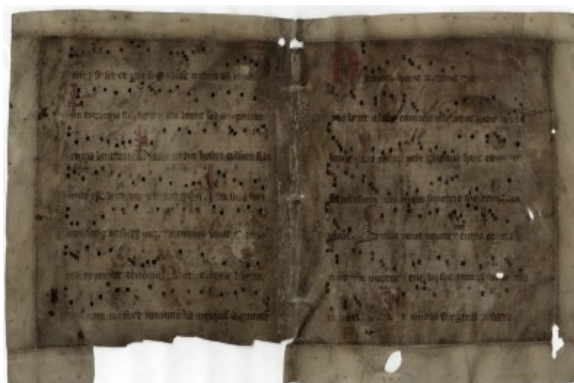
Fragment of Sequentionarium sec XIV, book-cover for church accounts, image.

18 Bulgaria: Pencho Slaveykov Regional Library (PSRL)

The Content provided by PSRL to Europeana via LoCloud covers different type of materials such as Invitations, Calendars, Printed Stamps and Seals, Posters, Images and Photos. These materials came from Varna Library, private collectors, three small libraries from the Varna region and two small museums in Varna.

PSRL delivered 1,839 items of local cultural heritage content to Europeana. Some highlights from the collection are illustrated below.

Pencho Slaveykov Regional Library (Invitation):
Invitation for masquerade ball. **Varna, 1898**

Private Collector (Photo): *Picture of three men.* **Varna, 1902**

Pencho Slaveykov Regional Library (Seal): *Union Club de Varna.* **Varna, 1895**

19 Serbia: Belgrade City Library (BGB)

BGB disseminated LoCloud to Serbian public libraries, galleries, archives, museums, the National Library and the University in Belgrade. BGB evaluated the digital content available from small memory institutions in Serbia and tried to identify potential new digital collections for Europeana. It offered training to librarians on digital libraries and the services developed in LoCloud.

BGB delivered content to Europeana via LoCloud from its own library collection and the dLibra digital library collection. The local metadata schema was harmonized with EDM and the two collections aggregated using LoCloud Collections and MORe. This was very important as it helped to demonstrate that it is possible for the small and medium size cultural institutions in Serbia to add their content to Europeana.

The content delivered included 198 photographs taken of cultural and educational events in Belgrade City Library and 643 newspapers, magazines, volumes, reports and rare books (in total more than 27,800 digitised pages are accessible via the metadata records in Europeana). Some highlights from the collections are illustrated below.

dLibra BGB digital library: Belgrade above the Danube : Collection of maps between XVI and XIX century

dLibra BGB digital library: Miney of Belgrade, Old book, 1552-August

dLibra BGB digital library: Nova iskra, Newspaper, 1905-August

dLibra BGB digital library: Nemanja, Magazine, 1887-October

BGB LoCloud Collection: The Night of Explorers in Belgrade City Library, 23.09.2011

20 Turkey: Hacettepe University (HU)

Hacettepe University (HU) cooperated with Koç University's Vehbi Koç and Ankara Research Center (VEKAM). VEKAM functions as the memory of Ankara with its library and archive, it is the primary reference centre for urban studies on Ankara. The library also incorporates the Ali Esat Bozyiğit Collection, which contains private resources on folk culture.

The VEKAM archive consists of two main collections. The Ankara Collection contains photos and postcards, documents, maps, and documentary films. It includes engravings of Ankara; original ration cards for basic consumption goods, such as bread, sugar, cloth, and gas oil, distributed to the public during World War II; city plans from different periods; and personal albums donated by long-established families from Ankara; Educational Documents dating from 1923 to 1945, and much more. The Vehbi Koç Collection contains documents, photos, and documentaries on the personal and professional life of late Vehbi Koç, who was born in Ankara and became a prominent figures in the recent history in Turkey.

HU worked with the Koç University team at VEKAM in preparing content from its Ankara Collection to provide to Europeana via LoCloud. Koç University was responsible for preparing and providing content (images, thumbnails and metadata) from VEKAM's automation system while the technical work of aggregation (exporting XMLs, mapping content in MINT and aggregating in MoRe, publishing and testing on Europeana) was carried out by HU. 1,138 items were delivered to Europeana from the Ankara Collection.

Some highlights from the collection are illustrated below.

Hamam tası, Ankara, object.

Bentderesi Bridge, Ankara, Postcard.

Tashan Oteli, Ankara, Image.

Mogan Plajı, Postcard.

21 Cyprus: Cyprus University of Technology (CUT)

The Digital Heritage Research Lab of the Cyprus University of Technology (CUT) has been supporting small and medium institutions in Cyprus. CUT offers training on documentation through its Apsida portal and CUT personnel offer support to the instiuttions in preparing the content. In total CUT has collaborated with 60 different institutions including public bodies, Municipalities of Cyprus, Communities around the Province of Limassol, Bishoprics of Cyprus and other stakeholders. CUT has worked with all of the four large cities of Cyprus: Nicosia, Limassol, Larnaca and Paphos.

To date the Cypriot have delivered 16,886 items to Europeana via LoCloud.

Some highlights from this very diverse collection are illustrated below.

Women from the village of Kato Lefkara embroidering a tablecloth as a present to Queen Elizabeth

Contributor: Lefkara Municipality

Date: 1950

Ministry of Agriculture, Rural Development and Environment, Nicosia Date: circa 1950

**Mural: Holy Monastery of Saint Neophytos,
Paphos, Cyprus
Date: 1197 A.D**
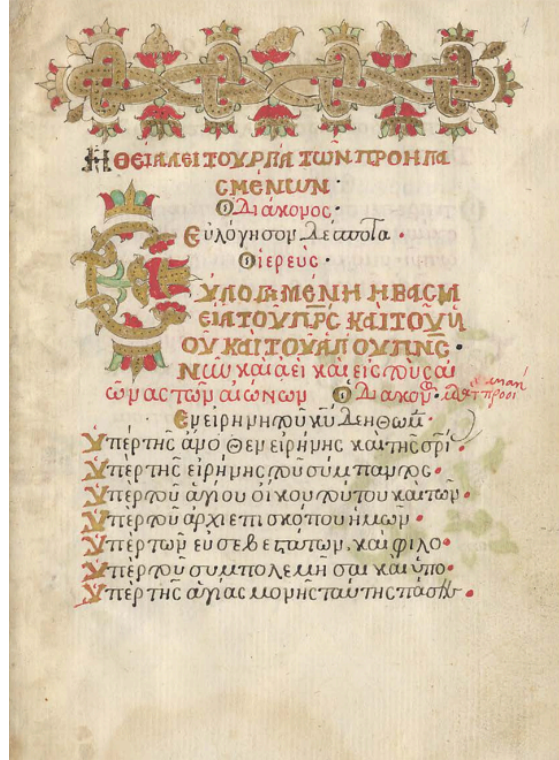
**The Liturgy of the Presanctified Gifts
Holy Monastery of Saint Neophytos, Paphos
ca. 1695 A.D.**

**Map of Cyprus, 50th Anniversary of British
Rule, Republic of Cyprus**

Date: 01-02-1928

**Bellapais Abbey, U .N. General Assembly's Cyprus
Resolutions Overprint Issue, Republic of Cyprus
Date: 1966**

Source: Cyprus Post, Republic of Cyprus

Turkish women at Lefkara showing their lace

Source: Press and Information Office, Republic of Cyprus

Contributor: Lefkara Municipality

Date: 1953

Trucks carrying grapes at KEO winery

Source: Pattichion Municipal Museum, Historical Archive and Research Centre

Date: circa 1940

Group photo with Maria P. Ioannou taken from the Archive of the Women Lyceum Club of Famagusta

Source: Women Lyceum Club of Famagusta Contributor: Vasos Stylianou

Charalambos Christoforou Collection

Creator: Nicolaos Hadikyriacos – Gkikas (left)

 & Yiannis Tsarouxis (below)

Figure XX: Photo galleries from some of CUT's local partners

Kyperounda Community

Pattichion Municipal Museum, Historical Archive and Research Centre

Cyprus Police

Pattichion Municipal Museum, Historical Archive and Research Centre
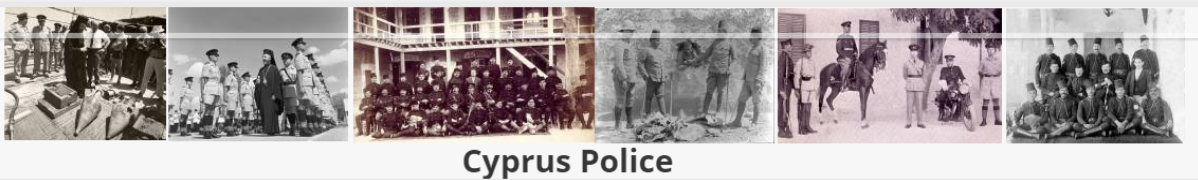
22 Iceland: AHAI and the Skagafjörður Heritage Museum

Fornleifavernd Rikisins, the Archaeological Heritage Agency of Iceland (AHAI) worked with the Skagafjörður Heritage Museum to deliver content to Europeana via LoCloud.

Since 2005 the Skagafjörður Heritage Museum has been collaborating with the authors of a book series on the Local History of Skagafjörður on an archaeological project called *The Abandoned Farms and Inland Settlements of Skagafjörður.* The aim of the project is to identify, date and define the nature (farm mounds, outhouses etc.) of long abandoned settlement remains. The work has involved systematic survey, sub-surface coring and small test trenches. The project is expected to end in 2017.

The collection delivered by Skagafjörður Heritage Museum to Europeana consists of 662 pictures taken by the project between 2005-2013.

Remains of a shieling in Unadalur in Skagafjörður.

East facing profile: A turf cemetery wall built after 1104 - out of use before 1300.

23 Ireland: Discovery Programme (DP)

During the course of the project, the Discovery Programme has delivered several separate collections to Europeana via LoCloud. The collections include:

- The Discovery Programme's Image collection
- The Dublin Institute of Advanced Studies Ogham Collection
- The Leo Swan Aerial Collection
- The Royal Society of Antiquaries of Ireland's (RSAI) Lantern Slide collection
- The Royal Society of Antiquaries of Ireland's (RSAI) George Victor Du Noyer Collection

The **Discovery Programme Image collection** was published online using LoCloud collections. These images were born digital; to prepare them for publication online DP resized the images and compressed jpeg files. The collection metadata was processed through MORE, several enrichment services were used in MORe including: Language Identification, Geonames Geocoding, and Vocabulary Services. Once enriched the content was published to Europeana.

DP collaborated with the **Dublin Institute of Advanced Studies** to deliver its **Ogham Collection** to Europeana via LoCloud. The collection includes a range of digital content including text, 3D, video and digital images, which was published on a dedicated project website (http://ogham.celt.dias.ie). DP supported DIAS in mapping their collection metadata using MINT, publication and enrichment on MORE.

The **Leo Swan Aerial Collection** represents the archive of one of Ireland's pioneering aerial photographers. Following Leo Swan's death in 2001, the collection was distributed amongst several individuals. This is the first time that this collection has been available online in its entirety. During LoCloud DP provided assistance to enable the high quality scanning of original negatives and slides. Subsequently the images were resized and compressed for web viewing and then hosted using LoCloud Collections. The collection metadata was processed and enriched using MORE and then published to Europeana.

The Royal Society of Antiquaries of Ireland's (RSAI) **Lantern Slide Collection** holds almost 100,000 glass lantern slides capturing Ireland during the earliest part of the 20th century. Volunteers digitized the original glass plates and created metadata. DP provided assistance and training for the volunteers. Subsequently the images were resized and compressed for web viewing and hosted online using LoCloud Collections. The collection was processed through MORE and published to Europeana. Initially it was hoped that more slides would be available for publication, due to lack of resources at the RSAI the rate of digitisation was less than expected. DP and RSAI hope that following the end of the LoCloud Project the rest of this collection will be digitised and made available to Europeana.

The Royal Society of Antiquaries of Ireland's (RSAI) **George Victor Du Noyer Collection** comprises of scanned illustrations created by Du Noyer, one of the first Ordnance survey mapmakers working in Ireland. Du Noyer recorded the natural and built heritage. The collection had been scanned previously and described; this meant that the path to metadata creation was slightly simpler. The images were uploaded to a LoCloud collection, which was

processed and enriched through MORE and published to Europeana. Broadcast of a four part documentary series dedicated to Du Noyer by the BBC resulted in increased viewing of this collection (http://www.bbc.co.uk/news/uk-northern-ireland-31902629).

Some highlights from the collection are illustrated below:
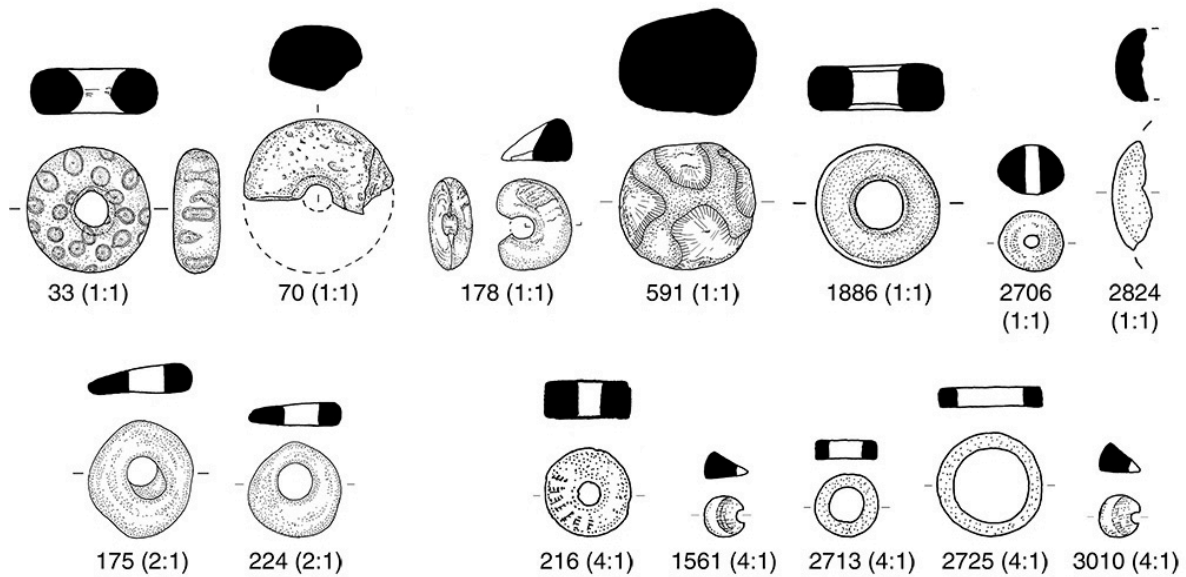
Discovery Programme Image Collection: illustrations of bronze age stone beads discovered during excavation.
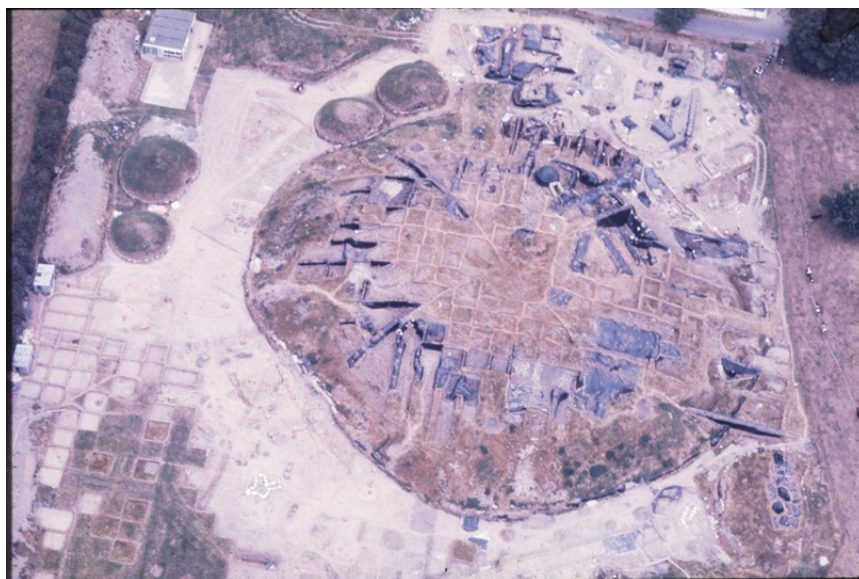
Leo Swan Collection: Aerial photograph of Knowth Neolithic passage tomb during excavation in the 1970s

DIAS Collection: Photograph of an Ogham stone

Lantern Slide Collection: sign posters at work

Illustration from the George Du Noyer collection

24 Slovakia: Univerzita Komenského Prírodovedecká fakulta (PrifUK KAEG)

Univerzita Komenského Prírodovedecká fakulta Katedra aplikovanej a environmentálnej geofyziky (PrifUK KAEG) planned to content from two of its collections to Europeana via LoCloud. The collections were "Archeogeofyzika" a small collection of 31 still images and records of geophysical survey responses over archaeological object and structures; and "Historické budovy" a collection of 1025 images of historic buildings and houses with specific architecture from its region.

PrifUK KAEG worked with several promising potential local content providers during LoCloud. But at the time of writing none has yet digitized their content.

Response of a Neolithic monument to the total magnetic field

Folk architecture log house from Vlkolínec

25 Italy: Fondazione Ranieri di Sorbello (FRS)

The Fondazione Ranieri di Sorbello is a non-profit organisation whose aim is to promote the cultural heritage of the Ranieri di Sorbello family through historical and cultural projects and exhibitions. It holds, an important family library, an archive and art collections. FRS provided content from its art collections and bibliographic items to Europeana via LoCloud.

FRS disseminated LoCloud to local cultural institutions in the Perugia region. As a result the Fondazione Centro Studi Aldo Capitini, the Istituto Conestabile Piastrelli, and the Fondazione Barbanera 1762 all expressed interest in providing content from their collections to Europeana. FRS provided its local partners with support and helped them to upload their content to instances of LoCloud Collections and with publication to Europeana. A total of 12,385 items of local cultural heritage were delivered to Europeana.

Some highlights from the collections are illustrated below.

"At the racecourse", from the left, Ruggero [VI] Ranieri Bourbon di Sorbello (1864-1946); Vittoria De Pazzi, (De Vecchi), Marianna De Pazzi, Clotilde Betocchi (in Marghieri), Romeyne Ranieri di Sorbello. Rome, 1913. Fondazione Ranieri di Sorbello. Subject: Fotografie. Licence CC-BY.

A child at the peace march Perugia-Assisi, Ph. Carla Gobetti, Assisi, 1961. Fondazione Centro Studi Aldo Capitini. Subject: Pace - iniziative e manifestazioni – 1961. Licence CC0.

"Non votate per me!", political flyer By Democrazia Cristiana, 1948. Istituto Conestabile Piastrelli. Subject: Elezioni politiche italiane 18 aprile 1948. Licence CC0.
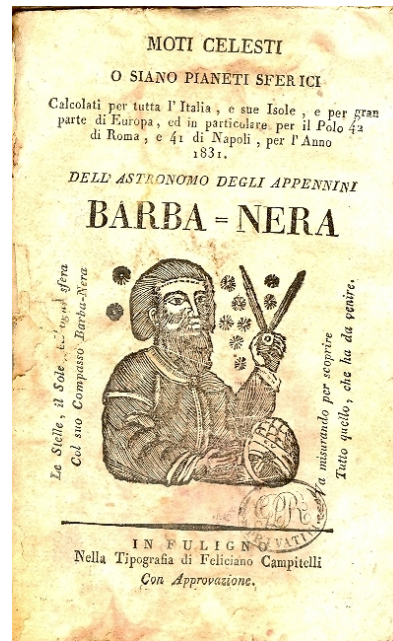

"Moti celesti, o siano Pianeti sferici calcolati per tutta l'Italia, e sue isole, e per gran parte di Europa, ed in particolare per il polo 42 di Roma, e 41 di Napoli, per l'anno 1831", Astronomical Calendar, Barbanera, Foligno, 1831. Fondazione Barbanera 1762, Licence CC-BY-NC-ND.

26 Croatia: Gradska knjiznica Rijeka (GKR)

GKR delivered content from Rijeka City Library's digital collection (SVeVID) and Crikvenica City Library digital Collection (Pikabit) to Europeana via LoCloud.

Through its dissemination activities three local organisations (Rijeka Industrial Heritage, Opatija City Library and Drenova Heritage Museum) became interested in making their collections available to Europeana. Opatija City Library is using LoCloud Collections for their digital collection and is in the process of creating metadata. Rijeka Industrial Heritage is also in the process of preparing their database.
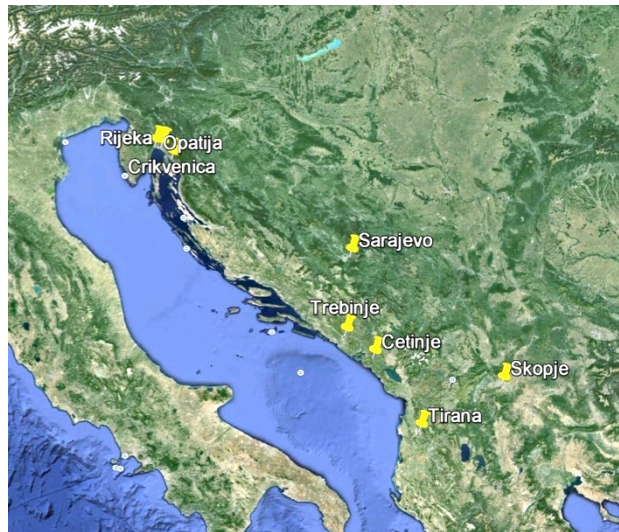
Rijeka City Library used LoCloud Collections to prepare the SVeVID and Pikabit collections for publication and harvesting. A total of 2,499 items of local heritage content were delivered to Europeana including collections, newspapers and magazines, a collection of postcards from Crikvenica Library and the Principia at Tarsatica (an archaeological site). Some highlight from the collections are illustrated below.

Principia at Tarsatica: "Tarsatički principij: kasnoantičko vojno zapovjedništvo," *SVeVID digitalna knjižnica***, accessed February 12, 2016, http://svevid.locloudhosting.net/items/show/2956.**

"Fiume : Corso," *SVeVID digitalna knjižnica*, accessed February 12, 2016,
http://svevid.locloudhosting.net/items/show/1317

27 Europe: Paul Maeyeart

Paul Maeyheart (www.pmrmaeyaert.eu) is a professional photographer with a large photographic archive. Paul Maeyeart has long-running projects to record Cathedrals and Romanesque architecture and he regularly works with museums photographing objects from their collections.

Paul Maeyheart published over 11,000 pictures of cultural heritage items in WikiMedia Commons from 2010 onwards. He made this collection available to LoCloud for a trial of the Wikimedia Application developed by the project. Maeyheart added information and data to the files in his archive. Athena RC used the Wikimedia Application to harvest the metadata and ingest it to MORe and this collection was then published in Europeana.

A second collection of 8,000 images was published online using LoCloud Collections, the metadata for this collection was created using an Excel spreadsheet prepared by Maeyheart with Athena RC providing support with the process.

Paul Maeyheart delivered 19,869 images to Europeana via LoCloud. The first collection includes images of monuments and sites in France, Spain, Belgium, the UK, the Netherlands and Germany. The second collection includes images from museum collections in Belgium, France, Germany and Spain. Some highlights from the collection are illustrated below.

Castell-Llebre, Església Santa Maria, PMR Maeyaert CC BY-SA

Saulieu, Basilique Saint-Andoche, PMRMaeyaert. CC BY-SA -

28 Switzerland: Kooperationsinitiative Museen Baselland

KIM.bl (Kooperationsinitiative Museen Baselland) is a network founded by five museums: Archäologie und Museum BL, Ortsmuseum Binningen, Dorfmuseum Bottmingen, Museum Laufental and Ortsmuseum Reigoldswil. Its goal is to provide a knowledge platform across all museums and collections in the Baselland canton. It also provides a shared database that is accessible through a web interface, which the museums use to inventory their cultural heritage objects. The network currently includes over 20 museums.

KIM.bl and LoCloud exchanged a Memorandum of Understanding in which LoCloud offered support to enable KIM.bl to provide data to Europeana.

The project is supported by Foundation Museum Basel-Landschaft, Swisslos-Fonds Basel-Landschaft, Department of Culture Basel-Landschaft and various other sponsors and competence partners.

KIM.bl has delivered 35,784 items of content to Europeana via LoCloud. The collection is very diverse and includes images of local life, buildings, monuments and landscapes, objects from the museums' collections, drawings, archives, etc. Some highlights from the collection are illustrated below.

Theatergruppe des Turnvereins, Schillers Räuber, Museen Muttenz CC BY-NC-SA

Wecker, Industriemuseum Waldenburgertal IMW - Public Domain

29 Conclusions

LoCloud has successfully contributed to the body of content available in Europeana for those interested in the local heritage of Europe's regions.

The content that has been delivered, over four million metadata records representing more than six-and-a-half million digital objects, is as rich and diverse as Europe's cultural heritage. It includes a lively set of images illustrating local life from festivals and holidays, farming and industry, to the horrors of war. It includes formal portraits alongside informal images illustrating changes in costume and other aspects of life. There are images, plans, drawings and paintings of landmark buildings, archaeological monuments and landscapes. A wide range of documentary archives ranging from the petroleum industry of Norway to the wines of Bordeaux, from parish registers to collections of letters and the personal archives of notable figures.

The collection has great potential to inform, inspire and encourage people to explore their local heritage. Some of this potential can be witnessed in the entries to LoCloud's "My Local History" competition: http://www.locloud.eu/LoCloud-Competition.

We commend you to explore this great collection in Europeana.

http://www.europeana.eu/portal/search?f[PROVIDER][]=LoCloud