

## PROGRESS REPORT

**Grant Agreement number:** 325099

**Project Acronym:** LoCloud

**Project Title:** Local content in a Europeana cloud

**Project type:** BPN

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### D7.4 Periodic Progress Report

Period covered: from 1st March 2014 to 31 August 2014

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## 1. Project objectives for the period

LoCloud aims to build on the achievements of CARARE, in establishing a repository-based aggregator for Archaeological and Architectural heritage, and of Europeana Local, in its work with local institutions and their regional and national aggregators.

LoCloud's overall objectives are to:

1. Continue to ease the task of enabling heritage organisations in making their contents accessible via Europeana, by using the cloud to provide services and tools which help to reduce technical, semantic and skills barriers.
2. Make it easier for digital content emerging from small and medium cultural institutions, and also through collaborative crowdsourcing initiatives, to be made available to Europeana in order to increase the richness and representativeness of Europeana's record of local history.
3. Improve the interoperability of relevant content from localities across Europe from institutional domains which in some countries act separately: namely the 'heritage' sector and the MLA (museums, libraries, archives) sectors, in order to provide a more coherent 'views' of the history and heritage of a given locality.
4. Enable smaller institution types such as house museums, which currently fall outside most aggregation infrastructures, to contribute their content to Europeana.
5. Explore the potential of cloud computing for aggregation, enrichment and re-use, with a special focus on geographic location.
6. Explore and trial a cloud based architecture as a scalable platform for Europeana metadata aggregation and harvesting with higher efficiency and reduced maintenance costs.

In the period from month 12 to month 18, LoCloud has focused chiefly on:

- Completing the implementation of the LoCloud aggregation infrastructure and integrating the major components and microservices.
- Developing and testing the microservices (geolocation enrichment, metadata enrichment, vocabulary services, historic placenames and Wikimedia).
- Establishing the support portal, documentation and help desk to serve the needs of the content partners
- Planning the delivery of training.
- Updating the partners content action plans
- Implementing the event log and monitoring the preparation and ingestion of metadata by LoCloud partners for Europeana.
- Delivering the first content to Europeana
- Disseminating news and information about the project.
- Planning the LoCloud workshop to be held at ICOMOS 2014.
- Completing the year 1 progress reporting.
- Preparing for an amendment to the project grant agreement to admit a new partner.

## **2. Work progress and achievements during the period**

### **Work package 1 - Planning, preparation and requirements**

WP1 ended at month 9

### **Work package 2 - Design and implementation of aggregation infrastructure**

Start month 7. End month 24

Lead beneficiary number: P29

#### **Objective**

To specify, design and test the core LoCloud infrastructure based on IaaS in the cloud, including both centrally provided and locally deployed infrastructural services

#### **Significant results**

The MINT and MORE prototypes along with the Lightweight Digital Library (LDL) have been implemented according to the design specifications laid out by the project. These tools, which comprise the LoCloud aggregation infrastructure, are up and running and the first batch of content has been delivered and accepted by Europeana. All major components of the infrastructure (MORE, MINT, LDL, Support Portal, Micro-services) have been established.

All partners were given combined logins for use on the MORE repository, the LoCloud support portal (WP4) and the Event log (WP5).

#### **Describe any issues (delays, deviations from the task as described in the description of work, other problems) and the actions taken**

Discussion is underway with the Europeana Cloud project concerning development of the aggregation infrastructure (including MINT and MORE) in this evolving context.

#### **Task 2.1 Core infrastructure specifications**

This task was completed at month 10

#### **Task 2.2 - Design and implementation of aggregator infrastructure**

The MINT tool has been deployed and configured according to the specifications laid out by Task 2.1. NTUA has worked on the integration between MINT and MORE. The technical requirements have been defined and have proceeded in implementing all the required calls in order to interlink the two systems. The LoCloud version of MINT can handle multiple schemas and has already integrated the following schemas:

- CARARE
- EDM
- LIDO
- DC

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The EAD schema is yet to be implemented.

The MORE aggregator has been implemented by Athena RC according to the specifications and tested. The first batches of content have been harvested, transformed, enriched and delivered to Europeana successfully. MORE can now handle multiple schemas and has a fully cloud architecture that can scale out. The UI of MORE has been completely re-designed into a more intuitive and responsive interface. The content providers can now perform all tasks by themselves with minimum interaction by the ingestion manager (although at this point the system is mostly tested by ATHENA staff).

Package id	Project name	Description
Package 465	LoCloud	Package 465 is ready for ingestion.
Package 464	LoCloud	Package 464 is ready for ingestion.
Package 463	LoCloud	Package 463 is ready for enrichment and/or publishing.
Package 462	LoCloud	Package 462 is ready for enrichment and/or publishing.
Package 461	LoCloud	Package 461 is ready for enrichment and/or publishing.

Screenshot: MORE main page

In an attempt to be more pro-active, the new MORE aggregator displays quick statistics and analyses information as it becomes available in order to allow content providers to make informed decisions and if necessary stop the process (in case of possible problems) at the earliest stage possible (so that resources are used more effectively).

Type	Results
Harvested items	160
Validated items (structural)	160
Validated items (schema)	160
Items with validation errors	0
Transformed items	0

Screenshot: MORE package view

In relation to the implementation of micro-services, Athena RC with UPV-EHU, Avinet and AIT, defined the LoCloud technical infrastructure and APIs needed to enable connectivity between the ingestion process and the various enrichment services and tools provided by WP3 tasks.

In the framework of WP5, 2Culture has called on content partners to update their content action plans and to provide a provisional schedule for harvesting. Athena RC and 2Culture met the Europeana content ingestion team to discuss the schedule, and Athena RC prepared the first batches of content for harvesting.

### **Task 2.3 Design and implementation of lightweight infrastructure for small and medium institutions**

2.3.1 In the reporting period PSNC has completed the initial implementation of the Lightweight Digital Library service, which is now under user testing. The system architecture was finalized, as well as the design of end user interfaces. The majority of development work necessary to make first test version available was finished.

Following discussions with NRA it was agreed to give the LDL service the brand name LoCloud Collections. This was then made available by PSNC in early beta version under <http://locloudhosting.net/>. A screencast from this beta version is available at <https://www.youtube.com/watch?v=r2xzl8F6Xik>

2.3.2 NTUA provided a “Metadata preparation toolkit”, D2.4. This includes a statistics-report module for the LoCloud version of MINT. This module is used in the preparation and quality assurance of the provider’s metadata.

2.3.3 AVINET has begun work on tools to prepare content online with embedded EDM metatags ready for capture by crawler services. M21 (D2.5)

#### **Task 2.4 - Testing and support of infrastructure**

All components of the infrastructure have been implemented and tested. The inter-connectivity of these components has been designed and is currently being implemented and testing. Testing of harvesting of the content providers repositories is underway. Due to be completed by M24.

Several content partners have participated in testing the aggregation infrastructure:

- NRA tested a uploading and mapping collection from MUSIT (Kulturhistorisk Museum) to MINT, and mapping to the CARARE and EDM schemas.
- RCE, ADS, NPU, FRS and other partners have created MINT accounts and carried out tests.
- ABMR has uploaded content to MINT and completed mappings to EDM
- NPU adapted its repository to export metadata according to the CARARE 2.0 schema and prepared a test collection for uploading to LoCloud MINT.
- Future Library, RCE, HU and other partners have set up test accounts for the LoCloud Collections and provided feedback to PSNC.

### **WP3 - Microservices for small and medium institutions**

Start month 9. End month 21

Lead beneficiary number: P21

#### **Objectives**

- To establish a cloud-based collaborative testing environment for tools and services and to test the use of tools to improve data quality for Europeana, through both professional and crowdsourcing contributions.
- To develop cloud-based SaaS services and applications suitable for use by small and medium institutions which wish to contribute their local history and heritage collections to Europeana.
- Through this work, to provide the basis for a continuing process of participative testing and validation of each of the services and applications, enabling their use by content providing institutions for cataloguing and by this, aggregation services and by Europeana for enrichment.

#### **Significant results**

At the end of August the first development phase for the LoCloud micro services finished. For each microservice, a report including the documentation was published as individual deliverables:

- D3.2 Geolocation enrichment services
- D3.3 Metadata enrichment services
- D3.4 Vocabulary services
- D3.5 Historic place names service
- D3.6 Wikimedia Application

#### **Describe any issues (delays, deviations from the task as described in the description of work, other problems) and the actions taken**

No issues to report.

#### **Task 3.1 Collaborative test laboratory**

The cloud test lab is accessible at <http://locloud.ait.co.at/> . The running platforms and software appliances are default accessible as <http://lc0XX.ait.co.at> or via ssh at [locloud.ait.co.at:23XX](http://locloud.ait.co.at:23XX) where XX is a running number from 01 to 99. The OpenNebula Sunstone Webinterface also allows VNC access to the machines. During the past months the platform DEBIAN has been added to the test lab. To date all micro services are accessible on virtual machines in the test lab.

#### **Testing:**

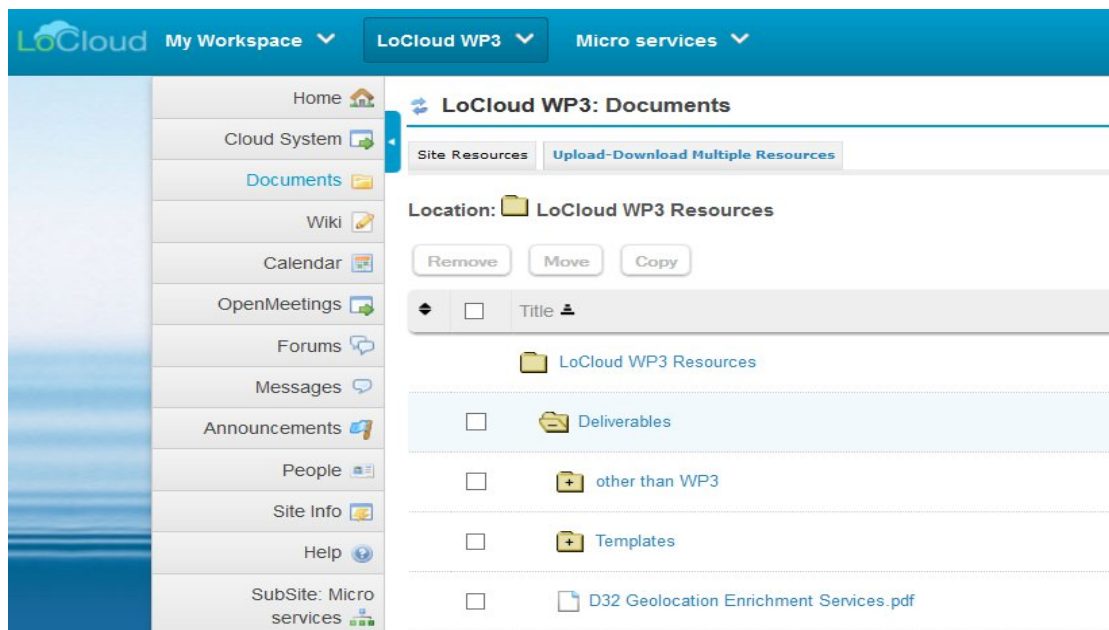
All task leaders established test plans for their micro services. The testing of the services is quite diverse. In the past months the testing rather focussed on technical and functional aspects and was mostly done among the WP3 partners and their internal teams. But several micro services (vocabularies, geocoding, historic place names...) will also offer an end-user interface that can be tested by end users. Therefore some micro services started already with end user testing during summer. The staged testing process will go on until end of November 2014.



The cloud test lab also includes the WP3 collaboration platform. The platform includes currently 3 work spaces:

- “My Workspace” > for personal data
- “LoCloud WP3”> visible and accessible just for WP3 partners
- “Micro services”> access point for all users and testers of the micro services

This platform can be reached at: <http://lc004.ait.co.at:8080/portal/site/locloud>. Access to the “LoCloud WP3” platform is restricted to WP3 participants and selected testers. All WP3 internal documents (test plans, minutes of skype calls, report templates etc.) are stored.



as the “Micro services” platform provides the access to all micro services. Later the testers can find here the testing documents and a link to the official LoCloud Support portal, where the user documentation and technical documentation is stored.

### Task 3.2 Geolocation enrichment tools

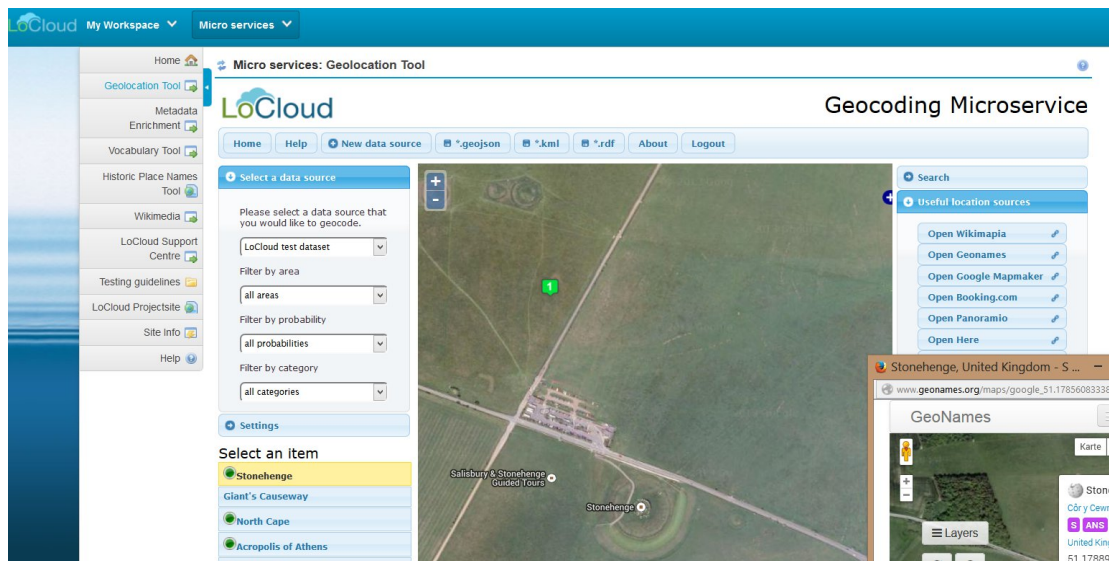
Within Task 3.2, the LoCloud Geolocation Enrichment Services, two different interoperable tools have been established in order to facilitate enrichment of existing cultural heritage metadata as well as enabling geographical names resolution into coordinates from literally any third-party application through a geolocation API. These two separate components can optionally be configured to work together, i.e. the geocoding application can consume the geolocation API services:

1. a geolocation API
2. a geocoding application

The purpose of the **LoGeo API** is to resolve a given search term into one or more recognized place names candidates accompanied by geographical coordinates. The LoGeo API is specially designed for the recognition of the place name from metadata of the cultural heritage and could be simply integrated and used in the other API-s, microservices, and applications. IPCHS developed a new version 1\_1 of the LoGeo

API, concerning new place names data sets and refinements of reasoning. The description of this work was contributed to the Deliverable 3.2.

The purpose of the **geocoding application** developed by AVINET is to enable local heritage professionals to execute crowd-sourcing projects to enrich non-spatial metadata records with geographical locations. The geocoding application offers a simple, map-centric user interface that permits geocoding of any records-based content, or content that may be represented as records, requiring no other software tools installed on their computer than a free, simple, mainstream web browser. The application may be configured to act as a front-end to the LoGeo geolocation API but may equally well act as a stand-alone software installation.



Screenshot: The Geocoding Microservice

### Task 3.3 Metadata enrichment

Within this task UPV/EHU is responsible for developing micro-services for metadata enrichment. The initial work on these micro-services started by analyzing the main requirements, defining the main API of the services, and deciding how to integrate the micro-services in the whole LoCloud infrastructure for aggregation. LoCloud Metadata enrichment comprises now two different micro-services:

- Background link micro-service, which automatically links CH items to background information contained in pages from an external resource like Wikipedia or DBpedia.
- Vocabulary matching micro-service, which automatically links metadata relevant to relevant classes in a provided vocabulary


The background link micro-service relies on DBpedia Spotlight, a state-of-the-art tool for performing Named Entity Disambiguation (NED). DBpedia Spotlight was chosen because it performed best in our experiments, as shown in the deliverable.

The vocabulary matching micro-service was developed from scratch for the project. It synchronizes with the vocabulary service (Task 3.4), a collaborative platform to

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explore the potentials of crowdsourcing as a way of developing multilingual, semantic thesauri for local heritage content.

All micro-services are implemented as REST services and are deployed into virtual machines (VM).



The screenshot shows the LoCloud Support Centre website. The main content area is titled "Metadata enrichment API technical documentation". It explains that the enrichment micro-services are implemented as REST services and are straightforward to use. Below this, there is a section titled "Invoking the API" which lists the base URLs for the metadata enrichment services. A table provides the following information:

URL	Service
http://test183.ait.co.at/rest/bglink	Background link English
http://lc013.ait.co.at/rest/bglink	Background link Spanish
http://test183.ait.co.at/rest/vmatch	Vocabulary match (Spanish and English)

Screenshot: Access information for the Metadata enrichment services

### Task 3.4 Vocabularies and languages

The Task 3.4, led by AIT, provided the following services:

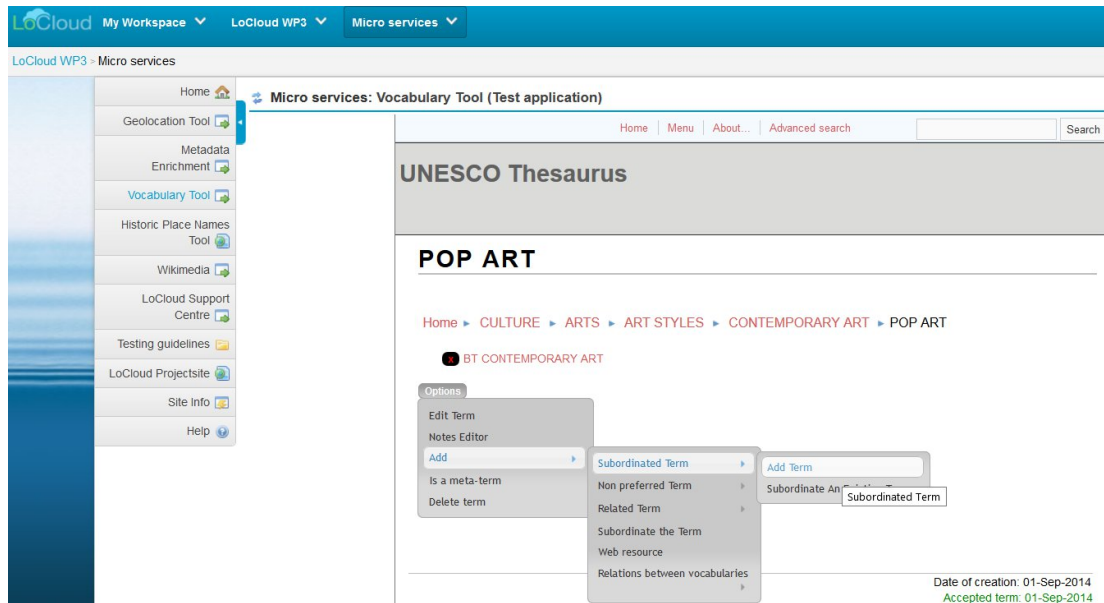
1. a cloud-based experimental vocabulary application for content providers that supports collaborative work and crowdsourcing efforts when creating multilingual vocabularies.
2. a platform for multilingual vocabularies from which they can be retrieved and used by the LoCloud metadata enrichment services.

Initial research showed that the open source software TemaTres would provide the most efficient starting point for the development of a multilingual vocabulary application. The LoCloud experimental vocabulary application now supports the import of vocabularies and the online collaboration in the creation and updating of vocabularies. In the past months TemaTres has been extended with a LoCloud SKOS importer and two new web service calls to allow import of data into a remote vocabulary.

Besides the software development the work in the past months included:

- testing the TemaTres SPARQL endpoint
- testing the TemaTres Web services
- testing the TemaTres import function with various thesauri
- testing the import of multilingual vocabularies (UNESCO Thesaurus)

A large number of existing vocabularies has been established with TemaTres and made available at the cloud test lab. These vocabularies are now being used in the enrichment services:



Screenshot: The vocabulary service

### Task 3.5 Historic place names

The aim of Task 3.5 was to develop a prototype application to enable local cultural institutions to collaborate in the development of a historical place name thesaurus and to enrich the harvested/ingested metadata.

The HPN services developed by VUKF enable local geocoded spatial name data to be uploaded to serve two distinct purposes:

- to contribute to the development of a LoCloud HPN Thesaurus and geoparser tool which allows high-resolution geocoding of local cultural heritage resources, monuments etc.;
- to supplement information about cultural heritage content in Europeana – historical placenames often carry a significant amount of local, national and European history, which is important to understand the cultural context of local information, and to bridge national historical narratives with the European multi-narrative.

The HPN services are developed on a HPN Thesaurus based on the relevant aspects of the CARARE metadata schema developed by the CARARE project.

HPN services perform the following functions:

1. Crowdsourcing and enrichment of provider's and aggregator's historical geodata
2. HPN geodata visualization
3. HPN interoperability provision

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The screenshot shows the LoCloud workspace with the 'Micro services: Historic Place Names Tool' active. A map of the Graz region is displayed, showing various locations. Below the map, a table titled 'Matched Places' lists search results for 'Graz'.

United geoname	Geographical distance	Ngram distance	Percentage	Remark	Best match	Synonyms
Graz		1.0	50.0		<input type="checkbox"/>	Vardas
						Coordinates
						Graz
						POINT (15.449999999999999 47.066670000000020)
						Gratz
						POINT (15.449999999999999 47.066670000000020)




Screenshot: The Historic Place Names service

### Task 3.6 Wikimedia and crowd sourcing

The Wikimedia application was built by ATHENA RC with support from PSNC in the design. The application is a web service and uses a REST interface in order to communicate with Wikimedia commons and facilitate the exchange of information. On top of the REST services, an API console has been built that demonstrates its functionality. The application's main functionalities are to harvest content from Wikimedia, parse the harvested content, and identify useful entities that can be mapped to the ESE or EDM metadata schemas. The mapped ESE / EDM records are then sent to MoRe in order to be delivered to Europeana. Once the harvested records have been delivered to MoRe, they can follow the enrichment workflows that are available.

The user is required to provide the URL to the Wikimedia API installation endpoint (e.g. <http://commons.wikimedia.org/w/api.php>), plus the user identifier that has provided the content to be harvested (e.g. PMRMaeyaert). The application then uses the API in order to retrieve the records associated with this user, parse and extract useful information which is then displayed to the user.

The screenshot shows the LoCloud workspace with the 'Micro services: Wikimedia Application' active. The interface includes an API url field, a User field, and a 'Daten absenden' button. Below, a table displays harvested records from Wikimedia Commons.

Author	Description	Source	Date	Image
PMRMaeyaert	Nederlands: CervellÃ³ This is a photo of a <a href="#">monument</a> indexed in the Spanish heritage register of <a href="#">Bienes de InterÃ©s Cultural</a> under the reference <a href="#">RI-51-0000437</a> .	Own work	22 March 2009	
PMRMaeyaert	Nederlands: Sint-Walburgakerk, Oudenaarde, Belgium, referentie PM_58142_B_Oudenaarde This is a photo of ourrend <a href="#">erfgoed</a> number <a href="#">27310</a>	Own work	15 September 2011 (upload date)	
PMRMaeyaert	Nederlands: Sint-Walburgakerk, Oudenaarde, Belgium, referentie: PM_58151_B_Oudenaarde	Own work	15 September 2011	

### **Task 3.7 Consolidated report**

A consolidated report on all micro services is due at month 21. Since start of Work package 3 all partners convene and discuss their developments in fortnightly skype calls. They use the WP3 platform to share documents and information among each other, and to distribute testing information. After the completion of the deliverables D3.2 to D3.6 the development partners contributed their technical documentation and end user documentation to the LoCloud Support Centre.

The technical partners have been included in the Help Desk and will contribute to the Q&A section (WP4).

**Testing the microservices:** several partners have been involved in testing:

- NRA and 2 external users tested the geolocation application service during summer 2014 giving feedbacks to AVINET in order to improve the tool.
- NPU contributed historical place name data from the Czech Republic for the HPN service.
- CG33 and Future Library carried out research in to the availability of historic place name data in France and Greece respectively.
- HU has started enriching their metadata with Geographic locations and historical placenames.
- RCE has started enriching their metadata with historic place names.
- ABMR has tested the services for vocabularies, Geo tagging and crowd sourcing.

#### **Work package 4 - Enabling and supporting small and medium institutions**

Start month 14. End month 36

Lead beneficiary number: P4

#### **Objectives**

- To enable and support small and medium sized institutions involved in providing content to Europeana through training, documentation and a help desk service delivered through a service-rich support portal
- To develop a sustainable centre of expertise in the aggregation and enrichment of local heritage content.

#### **Significant results**

- The support portal, incorporating documentation, a question and answer service and a help desk ticket system, went live. User accounts have been set up for partners. The portal is available at <http://support.locloud.eu/>.
- Documentation for MINT, MORE, the LoCloud Collections and LoCloud microservices has been incorporated into the support portal.

#### **Describe any issues (delays, deviations from the task as described in the description of work, other problems) and the actions taken**

- The training workshops (D4.3) were initially planned for five locations (Austria, France, Netherlands, Romania, Croatia). After consultations between partners responsible for organizing the workshops and project coordinator it was decided that workshops will be limited to three locations: France, Austria and Poland. Partners have been assigned to workshops and each location will host 10 – 15 participants. The justification for this decisions is: (a) taking into account the number of partners representatives, five workshops would be too much; (b) moving one of the workshops to Poland will allow to use PSNC's own HD television crew to record video training materials during the workshop. It should significantly improve the quality of *D4.4. Training video*.
- The hosting of the LoCloud support centre and related services was initially planned as a collaboration between AVINET and ATHENA RC, but during the technical setup it was decided that it will be easier and more reasonable to host all support portal components in one place. For that PSNC offered a server in its data centre. The administration of services remains the responsibility of partners appointed in the DoW.

#### **Task 4.1 Training**

In the reporting period PSNC together with AVINET started preparations for the training workshops. Workshops schedule, locations and agenda were prepared. All partners were informed about workshops and workshop registration was opened.

Three training workshops will take place in the last quarter of 2014. The majority of the project partners have already registered for workshops.

#### Task 4.2 Documentation and help desk

In cooperation with PSNC, ATHENA and AVINET have implemented the LoCloud support mechanism. While the individual components of the support mechanism are listed as independent building-blocks in the Description of Work, i.e. split into D4.1 and D4.2, PSNC, ATHENA and AVINET assessed the needs of the LoCloud content providers and recommended that a single point of entry for support options was provided. The systems involved have been installed on PSNC infrastructure (documentation wiki, helpdesk system, Q&A system) and configured by Athena RC and AVINET.

T4.2 is concerned with establishing online documentation and a help-desk where LoCloud content providers can find necessary guidance when executing their content contribution tasks. Both are accessed via the support portal (<http://support.locloud.eu>), which acts as a gateway to support and to documentation for LoCloud systems and microservices implemented in work packages 2 and 3.

#### Welcome to the LoCloud support centre

This page provides an introduction to the applications, APIs and microservices that are implemented through the CIP ICT-PSP project LoCloud including service descriptions, technical documentation, end-user manuals, frequently asked questions (FAQs) and demo installations where the services can be tested in a "sandbox" environment.

In addition to this WIKI, the support centre consists of:

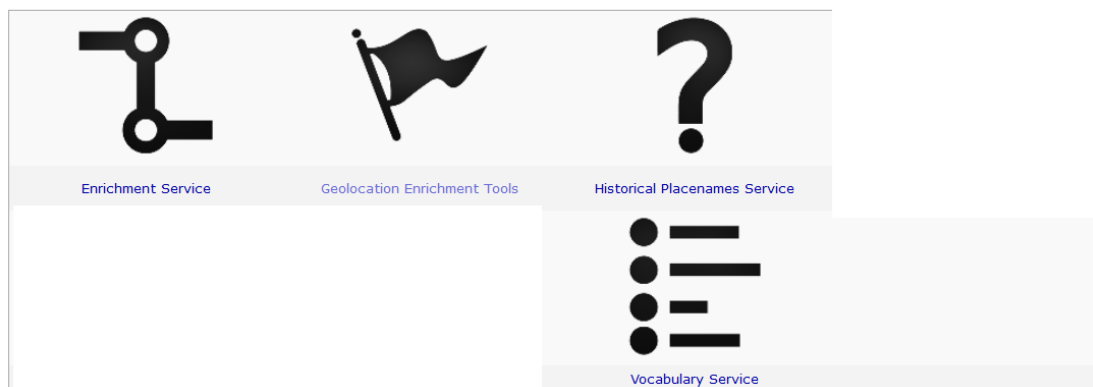
- a [Questions & Answers](#) module where members of the LoCloud community can share knowledge
- a [Help Desk](#) module where you can ask questions specific to your own systems and data

The LoCloud services and applications are listed below in alphabetical order, please click on the link in the list below for a description of the respective service as well as documentation and support options.

If you have a question that you believe may have been asked by someone else before, please check for an answer at our [questions and answers section](#). If you cannot find the answer to your question there and believe that it is useful to others as well as yourself, please post the question on that site.

If you have a technical support request regarding issues that are specific to you - or that are related to errors or unexpected behavior in software, please refer to the [technical support](#) section.

#### LoCloud Services and Applications



Screenshot: LoCloud Support Centre – Access to Micro Services documentation

AVINET with Athena RC configured the selected help-desk software ("osTicket", a widely used support ticket system) to accommodate the support service in LoCloud. The system is available at <http://support.locloud.eu/osticket>.



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The system has been configured with a group of “agents” who are responsible for responding to incoming support tickets.

Tickets are submitted to specific categories and specific agents are assigned to each category to secure the routing of incoming requests to the appropriate source of information/knowledge. In the majority of cases, this is a question of routing the ticket to the partner responsible for developing the respective software package.

End-users can use a preconfigured user-account for their institution – or they can register additional accounts as required.

A plan for monitoring, operation and SLA for the help-desk has been made and will be fully operational after the initial test-phase (expected to last through the end of September 2014) has been completed. After this run-in period we expect the portal to operate smoothly.

Athena RC, NTUA, AVINET, AIT, VUFK, PSNC, UPV/EHU and IPCHS have all made documentation available for services, which is compiled in the support portal.

### **Task 4.3 Support portal and centre of expertise for content providers**

In cooperation with PSNC, ATHENA and AVINET implemented the LoCloud support mechanism. The “main” entry point for the LoCloud support mechanism is the portal at <http://support.locloud.eu>.

The software chosen for the portal is Tiki Wiki. This permits fluent interaction with end-users who are able to edit and evolve existing content to the benefit of the wider user community. Tiki Wiki was installed and hosted by PSNC, and it was configured by AVINET to:

- Establish a basic navigation structure (menus, linking)
- Establish a content structure for documentation (categories, content)
- Established landing-pages for all software and application deliverables

In addition to Tiki Wiki, the support mechanism also includes an interactive FAQ system that was implemented by Athena RC using the software Questions2Answer. AVINET was responsible for configuring the software with categories corresponding to support/help topics and for assigning responsible users to answer these categories.

AVINET, with Athena RC, completed the accompanying report for D4.1, the help desk and documentation.

Athena RC, with contributions from AVINET, prepared an accompanying report for D4.2, the live support portal.

## **Work package 5 - Evaluation and impact assessment**

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Start month 12. End month: 36

Lead beneficiary number: P20 (UDE)

### **Objectives**

- Monitor the achievement of the objectives of LoCloud and their impact on the user communities.
- Monitor and evaluate the amount, types and quality of metadata and content being provided to Europeana by LoCloud partners.

### **Significant results**

- The first collections from CUT and Zavad-Jara were sent to Europeana for test harvesting in August.
- KUAS has collected Europeana DEA agreements from 85 museums using their Regin system including the National Museum and the National Art gallery, all agree to their content being delivered to Europeana. 10 further museums have yet to reply.
- UDE has been in discussions with the German National Library, and national aggregator, in Frankfurt about support for local institutions.

### **Describe any issues (delays, deviations from the task as described in the description of work, other problems) and the actions taken**

A slight delay in implementation of Event Log to end August due to summer vacation had limited impact as monitoring was carried out by individual discussions (via email and Skype) by the project manager and WP5 leader, and the results shared with WP 5.

### **Task 5.1 Evaluation of the IaaS and SaaS architecture**

UDE - Task starts at M24.

- UDE updated the GANTT Chart of WP5 to provide an overview
- UDE has had initial discussions with WP5 partners and technical partners about how to evaluate the IaaS and SaaS architecture.
- Technical partners have been asked how they can support monitoring processes focusing on monitoring workflow between different components in LoCloud architecture and the monitoring mechanisms integrated in LoCloud components including the lightweight digital library system and micro-services

### **Task 5.2 Content and metadata quality assessment**

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The project manager, with support from NRA and all content partners, completed a review and update of the partners' content and action planning in May. The results were provided as appendices to D1.3 and 1.4 following a recommendation made by the project review.

Following a decision by NRA to re-use the Event log tool used in the Europeana Local project, AVINET upgraded and implemented the system in discussion with the project manager to support content ingestion planning and progress monitoring. The Event Log keeps track of life-cycle events for each collection from data provided by the content providers up to the point when content is visible in Europeana – permitting WP5, technical partners responsible for ingestion and Europeana to monitor the progress and the ingestion timetable as well as the overall amount of content contributed.

Avinet implemented the Event log as an additional effort to benefit the project overall; they have not claimed PMs for this work and there is no impact on project resources.

The project manager with support from NRA and all partners has coordinated an update of D5.1, the periodic report on content ingestion at M18. The work reflects more technical monitoring of the content as it is prepared for ingestion. The statistical tools implemented on MINT and MORE are now enabling the quality of the content to be monitored.

UDE, NRA and the project manager continued discussions about the content and monitoring tools. Analysis of content sources from the respective participant domains, institutions and crowdsourcing is underway by the technical partners.

Agreed approach:

- A WP5 working group reviews the operation of the Event Log, based on practical experience from its use as data begins to be harvested from the first group of partners.
- A working group is set up to monitor the content stream and assess the metadata quality provided by each partner.

#### **Task 5.3 Impact on participating institutions and end users**

D5.3 and D5.4 will focus on the impact on institutions and end users as well as on recommendations. Task 5.3 starts after first prototypes of the lightweight digital library system and micro services are implemented and tested. RCE has begun to prepare for the evaluation and impact assessment.

#### **Impacts**

BGB reports that it has been exploring the possibilities of establishing a national aggregator based on tests of LoCloud services.

## **Work package 6 - Dissemination and exploitation**

Start month 1. End month 36

Lead beneficiary number: P13

### **Objectives**

To organise a large scale effort to:

- increase Europeana's impact at the local level through a range of activities such as regional, national and international events, online networking and a competition;
- promote the availability of LoCloud's results and available services to small and medium sized institutions and to aggregators throughout Europe
- plan and create a business model for a sustainable support service for small and medium sized institutions with limited or no access to the Europeana ecosystem.

plan with Europeana the way in which the services created by LoCloud can be applied to the whole Europeana corpus in order to create location-based views over its entire index

### **Significant results**

Work has begun on the organisation of the LoCloud workshop (6.2.2) which will take place in November in Italy. Planning is also underway for the LoCloud competition (6.3). Partners have participated in a substantial number of relevant events where they have promoted the project. Extensive dissemination has been conducted through the web site, newsletter and social networks.

### **Describe any issues (delays, deviations from the task as described in the description of work, other problems) and the actions taken**

Nothing to report.

### **Task 6.1 Dissemination planning**

#### 6.1 Dissemination Planning

**Website and newsletter.** The project website is updated regularly with news, articles, and other content. Since the start of the project, 7,065 sessions have taken place for a total number of 4,460 users. The peaks were registered in July 2013 and March 2014. The highest percentage of views were registered in Spain, United Kingdom and Italy but the site was visited by users from most EU countries. All relevant statistics are provided in Annex 2.

The third issue of the project newsletter was distributed to 71 registered stakeholders in August 2014 and widely promoted through individual mailing lists and social networks of the project partners.

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News continues to be disseminated via Twitter (88 followers) and on the LinkedIn LoCloud group (54 members) (see Annex 1).

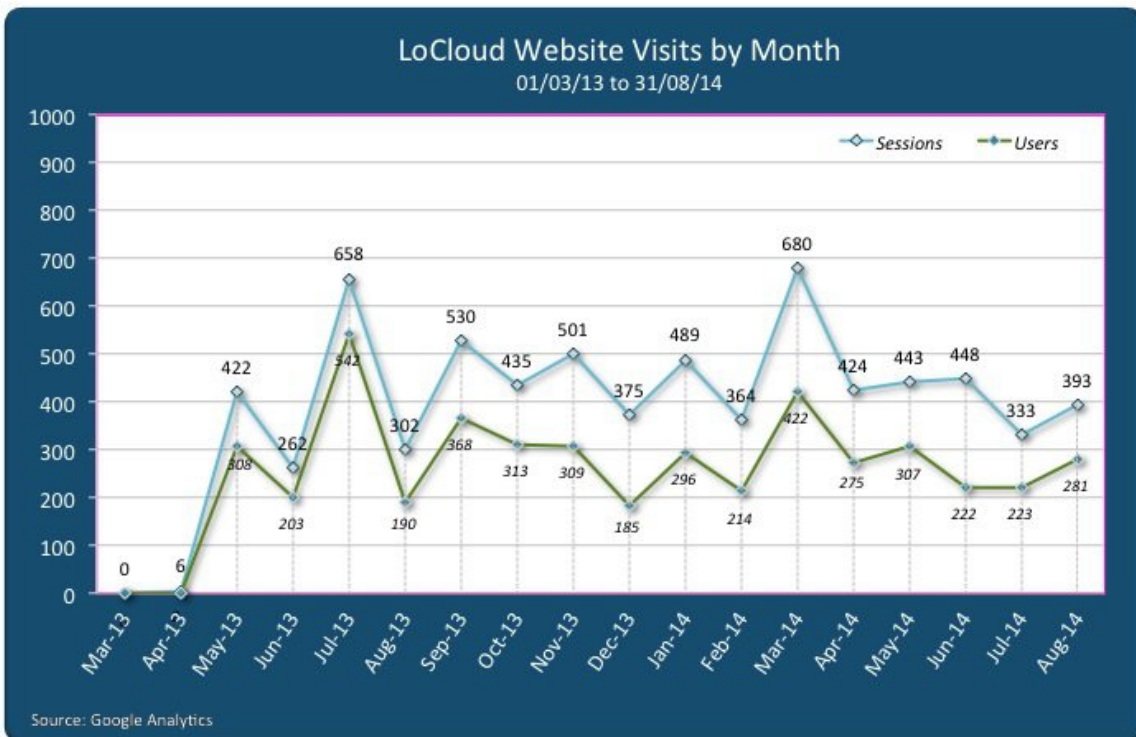
The project's initial dissemination plan has been recently updated to include planned activities and strategy for the coming 18 months.

Partners have contributed by providing translations of press releases and other materials, and helping with distribution of news via their own channels.

### Web site and social networks statistics (March-August 2014)

Google Analytics has been in place since the launch of the project website. The statistics show that during March to August 2014 there were:

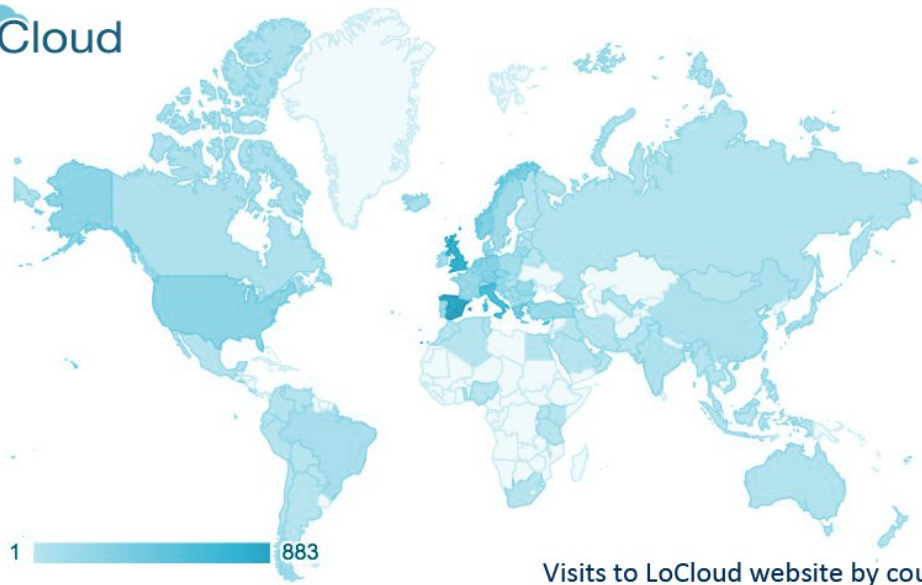
- Total number of sessions: 7,065
- Total number of users: 4,460



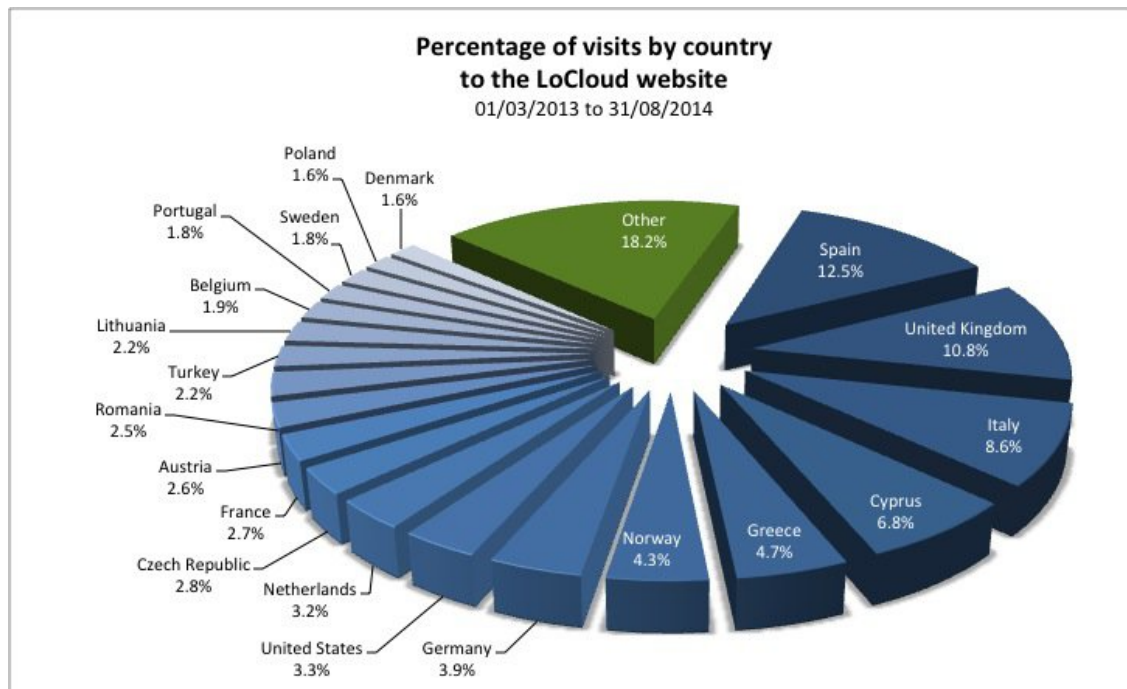
*Note: Google Analytics does not record visits from users with JavaScript disabled. There are no accurate figures for the percentage of users with JavaScript disabled, but it is generally considered to be somewhere between 2% to 3%.*

Analysis of the website statistics by country shows that the largest number of visitors came to the site from Spain, the UK, Italy, Cyprus, Greece, Norway, Germany, the United States, the Netherlands and Europe. But the geographic reach of the project is wide with visitors coming from North and South America, Asia, Australia, New Zealand and parts of Africa.

*Note: While there are systems in place to prevent visits from site administrators (by IP and by website account), these systems are not 100% reliable and may result in inflated visit counts from the UK.*



Visits to LoCloud website by country  
01/03/13 to 31/08/14



## D7.4 Periodic progress report – 1<sup>st</sup> March 2014 to 31<sup>st</sup> August 2014

### Percentage of visits by country to the LoCloud website

Date Range: 01/03/2013 to 31/08/2014

Country	% Visits	Country	% Visits	Country	% Visits	Country	% Visits
Spain	12.50%	Slovenia	1.57%	Mexico	0.20%	Armenia	0.06%
United Kingdom	10.83%	Croatia	1.34%	Luxembourg	0.18%	Egypt	0.06%
Italy	8.56%	Brazil	1.26%	Malta	0.18%	Hong Kong	0.06%
Cyprus	6.78%	Bulgaria	1.22%	Colombia	0.17%	Iran	0.06%
Greece	4.73%	Serbia	1.17%	Argentina	0.16%	Nigeria	0.06%
Norway	4.26%	Iceland	1.16%	Latvia	0.16%	New Zealand	0.06%
Germany	3.93%	Ireland	1.03%	Montenegro	0.13%	Peru	0.06%
United States	3.30%	China	0.85%	Israel	0.11%	Philippines	0.06%
Netherlands	3.17%	Canada	0.69%	Chile	0.10%	Saudi Arabia	0.06%
Czech Republic	2.80%	India	0.67%	Hungary	0.10%	Algeria	0.04%
France	2.73%	Switzerland	0.59%	Malaysia	0.10%	Kenya	0.04%
Austria	2.56%	Australia	0.50%	Taiwan	0.10%	Morocco	0.04%
Romania	2.52%	Slovakia	0.42%	El Salvador	0.08%	Singapore	0.04%
Turkey	2.24%	Russia	0.40%	Venezuela	0.08%	Thailand	0.04%
Lithuania	2.18%	(not set)	0.40%	Albania	0.07%	Tunisia	0.04%
Belgium	1.92%	Japan	0.35%	Indonesia	0.07%	Belarus	0.03%
Portugal	1.77%	Bosnia & Herz.	0.34%	Macedonia (FYROM)	0.07%	Lebanon	0.03%
Sweden	1.76%	Finland	0.33%	Pakistan	0.07%	Qatar	0.03%
Poland	1.64%	Estonia	0.20%	South Africa	0.07%	Trinidad & Tob.	0.03%
Denmark	1.60%	South Korea	0.20%	UAE	0.06%	Vietnam	0.03%
						Other	0.35%

Source Google Analytics

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The top referrals to the LoCloud website were as follows:

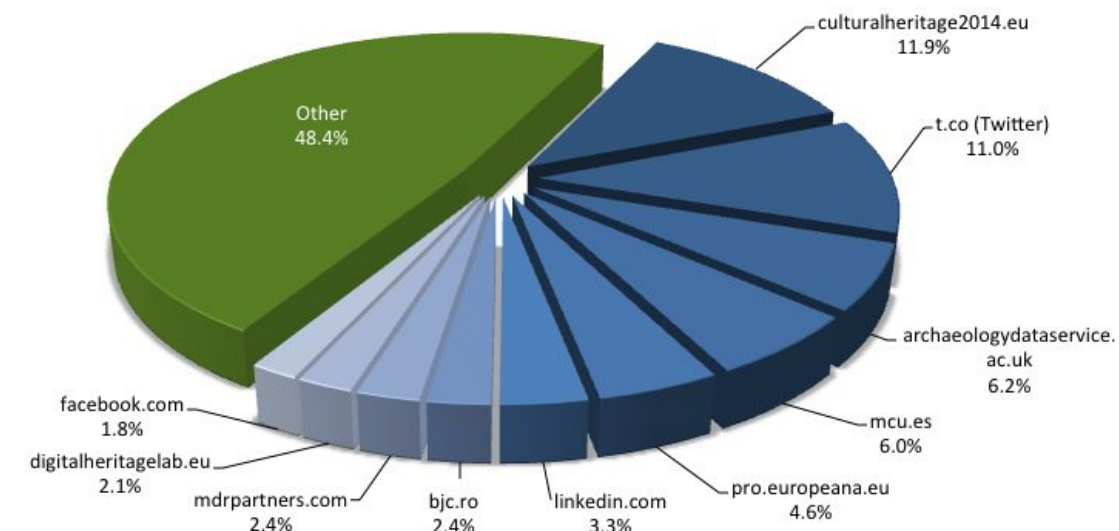
Referral Source	Sessions	% Total
culturalheritage2014.eu	266	11.9%
t.co (Twitter)	247	11.0%
archaeologydataservice.ac.uk	139	6.2%
mcu.es	134	6.0%
pro.europeana.eu	103	4.6%
linkedin.com	73	3.3%
bjc.ro	53	2.4%
mdrpartners.com	53	2.4%
digitalheritagelab.eu	47	2.1%
facebook.com	41	1.8%
Other	1085	48.4%
<b>Total</b>	<b>2241</b>	<b>100.00%</b>

Source: Google Analytics

The top viewed content on the LoCloud website was the home page, the about page, the resources page, news followed by activities and the community page.

### Top 10 referrers to the LoCloud website

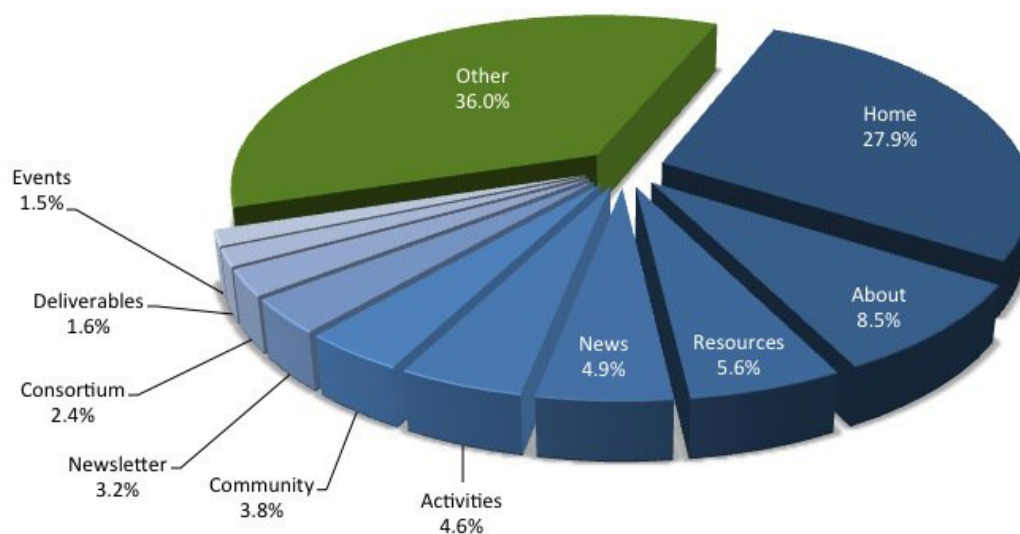
01/03/2013 to 31/08/2014





**Top 10 content viewed on LoCloud website**

01/03/2013 to 31/08/2014



Page	Pageviews	% Total
Home	6489	27.9%
About	1987	8.5%
Resources	1308	5.6%
News	1149	4.9%
Activities	1062	4.6%
Community	876	3.8%
Newsletter	740	3.2%
Consortium	562	2.4%
Deliverables	379	1.6%
Events	340	1.5%
Other	8379	36.0%
<b>Total</b>	<b>23271</b>	<b>100.00%</b>

Source: Google Analytics

## Social Networking



### Twitter : LoCloud Project

<https://twitter.com/LoCloudProject>

Tweets: 65

Retweets: 99

Followers: 88

Included on Lists: 9



### LinkedIn

A group has been established for LoCloud at:

<https://www.linkedin.com/groups/LoCloud-4984888>

Members: 54

Discussions posted: 15



**Slideshare** an account has been established for the project: LoCloud. This channel will be used to share project presentations, reports and other publications.

Slideshare will be used to embed documents on the LoCloud website to enable visitors to browse the full document with an option to also download them. Presentations and documents can also be viewed directly from slideshare.



A **YouTube** channel has been established for the project. The “LoCloud Introduction” Video has been uploaded

Views: 716

Subscribes: 2

### LoCloud Website Registrations

Total Registrations : 78

Partner Registrations: 49

## Task 6.2 Conferences, events and other activities

Partners’ dissemination activities are listed in the tables in Appendix 1 below.

ADS with support of NRA, has organised the year two workshop at the 18<sup>th</sup> ICOMOS General Assembly and Scientific Symposium, to be held in Florence, Italy during 9-14 November. Partners from across the project will present on the goals of the LoCloud project, along with demonstrations of the mapping tools and cloud-based services, LoCloud Collections, geographic location and map-based services, and support for communities and cultural tourism.

During the reporting period GKR, BGB and Zavod Jara have started to gather information and established contacts with potential event co-organisers in the Balkan non-partner countries.

Breda Karun (Zavod Jara) submitted a paper, on LoCloud and lightweight digital library Collection, to the BAM conference to be held on 10-11 October in Sarajevo,

D7.4 Periodic progress report – 1<sup>st</sup> March 2014 to 31<sup>st</sup> August 2014

Bosnia: (<http://www.bam.ba/index.php/en/konferencija-bam/bam-2014>).

Activities planned for the coming period include: designing of the regional training workshop content, identifying key events in the Balkan countries. for future dissemination of LoCloud.

2Culture Associates, Limberg and MECD participated in the Europeana Aggregators Forum meeting in the Hague in May 2014.

### **Task 6.3 LoCloud Competition**

According to the LoCloud DoW, the project ‘will organise a Europe-wide LoCloud competition during year three to stimulate best practice and innovation among individual regions and localities to create a ‘view’ within Europeana of the history and heritage of their locality, with awards to be presented at the Final Event.’

During recent months the project dissemination team has started to create a plan for the organisation of the competition. The event has been discussed during a number of skype calls and a draft workplan document has been prepared, detailing the various actions to take in coming months. The content for the competition’s web pages has been drafted. The idea is to try to combine a hackathon with an on-line competition. Contacts have been established with Europeana with the aim of cooperating on the organisation of a hackathon and of identifying an event where it can be held. We are currently considering the CH 2015 Conference as a possible event for the final awards presentation. This is a major conference which takes place every other year in a different location. The venue for the 2015 edition is still not known but we are in contact with the organisers.

### **Task 6.4 Planning sustainability and wider application to Europeana**

Starts in year 3.

#### **Contacts by potential new content partners**

The “Kooperationsinitiative der Museen Baselland” (Cooperation Initiative of the Museums in the canton of Basel-Country, Switzerland) was put in contact with the project by Europeana. Discussions have started about the possibility of the Museums providing content to Europeana via LoCloud.

### 3. Deliverables and milestones tables

Deliverables (excluding the periodic and final reports)

TABLE 1. DELIVERABLES									
Del. no.	Deliverable name	WP no.	Lead part	Nature	Dissemination level	Due date from Annex I	Delivered Yes/No	Actual / Forecast delivery date	Comments
1.1	Report on the state-of-the-art monitoring and situational analysis	1	6	R	PU	5	Y	5	
1.2	Definition of metadata schemas	1	10	R	PU	7	Y	7, 15	An update was provided following the review recommendations
1.3	Content and metadata analysis	1	29	O	PU	7	Y	7, 15	An annex was provided following the review recommendations
1.4	Consolidated action plans	1	2	R	PU	9	Y	10, 15	An annex was provided following the review recommendations
1.5	Requirements analysis	1	29	R	PU	9	Y	9, 15	An update was provided following the review recommendations
2.1	Core infrastructure Specifications (including Business Process Models)	2	29	O	PU	11	Y	12	

D7.4 Periodic progress report – 1<sup>st</sup> March 2014 to 31<sup>st</sup> August 2014

TABLE 1. DELIVERABLES									
Del. no.	Deliverable name	WP no.	Lead part	Nature	Dissemination level	Due date from Annex I	Delivered Yes/No	Actual / Forecast delivery date	Comments
2.2	Modified MINT prototype	2	3	P	PU	12	Y	12	
2.3	Modified MoRe (LoCloud) Aggregator prototype	2	29	P	PU	12	Y	13	
3.1	Operational SaaS Test lab	3	21	P	PU	12	Y	12	
5.1	Periodic reports on content ingestion	5	1	P	PU	12, 18	Y +	13, 19	An update was prepared to report on progress with ingestion to M18.
6.1	Initial dissemination plan	6	2	R	PU	6, 18	Y +	6, 19	An update has been prepared to provide a plan for the period from M18.
7.1	Consortium Agreement	7	2	O	RE	1	Y	1	
7.2	Periodic Progress report	7	2	R	RE	7	Y	7	
7.3	Annual Progress report	7	2	R	RE	12	Y	14	
2.4	Metadata preparation tool kit	2	3	P	PU	16	Y	17/7/14	Slight delay for internal review.
3.2	Geolocation enrichment services	3	14	P	PU	18	Y	8/9/14	Requested permission to submit M18 deliverables in early September to allow for August holidays, and to give time for internal reviews to be completed.
3.3	Metadata enrichment services	3	10	P	PU	18	Y	5/9/14	
3.4	Vocabulary services	3	21	P	PU	18	Y	8/9/14	
3.5	Historic place names	3	12	P	PU	18	Y	12/9/14	

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TABLE 1. DELIVERABLES									
Del. no.	Deliverable name	WP no.	Lead part	Nature	Dissemination level	Due date from Annex I	Delivered Yes/No	Actual / Forecast delivery date	Comments
	service								
3.6	Wikimedia application	3	29	P	PU	18	Y	10/9/14	
4.1	Documentation and help desk	4	11	P	PU	18	Y	12/9/14	
4.2	Live support portal	4	29	P	PU	18D	Y	15/9/14	
7.4	Periodic progress report	7	2	R	PP	19			

**Milestones**

<b>TABLE 2. MILESTONES</b>				
<b>Milestone no.</b>	<b>Milestone name</b>	<b>Due achievement date from Annex I</b>	<b>Achieved Yes/No</b>	<b>Comments</b>
<b>MS 1</b>	Country planning completed	7	Y	Expressed in D1.4
<b>MS 5</b>	Content and metadata analysis tools available	12	Y	Tools defined in D5.1
<b>MS 8</b>	Plenary meeting	9	Y	Held in London
<b>MS3</b>	Microservices tested and live	18		Expressed in D3.2, 3.3, 3.4, 3.5 and 3.6
<b>MS4</b>	Support portal and centre of expertise made active	18	Y	The support portal went live in M18 and is expressed in D4.1 and 4.2

## 4. Project management

### Task 7.1 Activity planning and day-to-day management of the Project and its activities

- The Project manager changed during the reporting period with the withdrawal of MDR partners from the project consortium.
- MDR, working with the Coordinator, worked to ensure an efficient transfer of the project document library and this task.
- The Coordinator, with the agreement of the Commission and the partners, invited 2Culture Associates to participate in the project and take on the project management role.
- The project manager and the Coordinator worked together to ensure the effectiveness of communications and information flow between the management team, work package leaders, partners and Europeana.
- The project management team and work package leaders met prior to the project review in Luxembourg on 6<sup>th</sup> May.
- There have been no Project Management Board meetings during this reporting period.

### Task 7.2 Management of the grant agreement with the Commission

- Partner 2, MDR Partners (MDR) withdrew from the consortium on 4<sup>th</sup> April. Following discussions with the Commission and the agreement of the partners, arrangements were set in train to add a new partner, 2Culture Associates (2Culture) from M14.
- The progress reporting for year 1 was completed and submitted to the Commission for review.
- NRA, Athena RC, AIT, UDE, AVINET and PSNC participated in first project review, which took place on 7<sup>th</sup> May and the project was found to have made good progress. The overall recommendations were to:
  - Provide an update to D1.2, the definition of metadata schemas, to take into account the findings of the content and requirements analysis
  - Provide an annex to D1.3 to show a description and time related actions for the content to be added to Europeana
  - Provide an annex to D1.4 to show the timing of activities and an action plan for testing
  - Provide an annex to D1.5 with a complete analysis of the results of the survey and state of the art
  - Provide a descriptive in the form of a Wiki for local content providers on MINT and other tools
  - Close monitoring of the budget and the effort for the forthcoming period so that any remedial actions needed can be taken
  - Provide more detailed exploitation plans and measures in the next period.
- Following the project review, the requested updates to D1.2,3,4 and 5 were provided and the financial reporting was completed.



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- Work commenced in preparation for an amendment to the grant agreement to admit the new partner

#### **Task 7.3 Quality Assurance of deliverables**

- 2Culture and NRA have coordinated the quality assurance of deliverables: D 2.4, 3.2, 3.3, 3.4, 3.5, 3.6, 4.1 and 4.7 were completed, reviewed and submitted according to plan.

## Use of resources

Over view of person month status - cumulative

Consortium Nr short name	WP1		WP2		WP3		WP4		WP5		WP6		WP7		TOTAL	
	Actual	Plan ned	Actual	Plan ned	Actual	Plan ned	Actual	Plan ned	Actual	Plan ned	Actual	Plan ned	Actual	Plan ned	Actual	Plan ned
1 NRA	1.616	7	0.333	2	3.192	7	0.330	5	0.275	5	6.967	14	8.850	14	21.563	54
2 MDR	0.239	3	0.000	0	0.000	0	0.000	3	0.492	3	8.531	10	7.922	30	17.184	49
3 NTUA	3.004	3	6.869	12	1.935	3	0.000	8	0.335	0	0.000	3	0.233	2	12.375	31
4 PSNC	2.993	3	7.769	14	0.757	8	0.688	16	0.000	4	0.000	5	0.000	3	12.207	53
5 MECD	4.000	4	1.025	2	0.000	4	1.484	1	4.000	2	0.829	4	1.338	2	12.676	19
6 KUAS	6.269	5	1.325	2	0.000	2	0.000	1	0.518	2	1.126	4	0.279	2	9.516	18
7 BJC	1.813	2	0.373	2	0.320	2	0.053	1	0.000	2	0.854	4	0.480	2	3.893	15
8 RCE	1.443	4	0.123	2	0.083	2	0.000	1	0.000	6	0.000	4	0.238	2	1.887	21
9 NPU	4.011	4	2.775	2	1.084	2	0.000	1	0.542	2	1.440	4	0.985	2	10.837	17
10 UPV EHU	3.859	4	0.000	0	2.336	7	0.000	1	0.141	0	1.047	3	0.804	2	8.186	17
11 AVINET	0.617	4	3.870	8	7.315	7	5.124	12	0.000	0	0.000	3	0.968	2	17.895	36
12 VUKF	6.175	4	4.251	2	12.060	7	0.000	1	0.000	6	1.319	5	1.199	2	25.004	27
13 UoY ADS	4.015	4	1.582	2	3.709	4	0.000	3	0.000	0	3.843	8	0.856	2	14.005	23
14 IPCHS	1.268	2	0.211	2	3.789	7	0.915	1	0.401	0	1.986	3	0.880	2	9.449	17
15 Provincie Limburg	0.583	2	0.544	2	0.471	2	0.000	1	0.037	5	0.664	4	0.354	2	2.652	18
16 CG33	2.005	2	0.077	2	0.093	2	0.248	1	1.409	5	1.374	4	1.092	2	6.297	18
17 Zavod Jara	1.966	2	0.869	2	0.731	2	0.000	1	0.823	2	1.501	6	2.408	2	8.297	17
18 Future Library	2.004	2	1.509	2	1.272	2	0.221	1	0.229	2	1.722	4	1.066	2	8.023	15
19 FMNF	1.040	2	0.000	2	0.040	2	0.000	1	0.347	2	0.307	4	1.620	2	3.354	15
20 UDE	3.403	3	1.069	2	0.725	2	0.000	1	2.684	6	1.198	4	1.472	2	10.551	20
21 AIT	1.957	2	0.427	2	15.265	18	0.255	3	0.169	4	1.187	2	1.402	3	20.662	34
22 ABMR	2.000	2	1.000	2	1.467	2	0.200	1	0.000	2	1.267	4	0.427	2	6.361	15
23 PSRL	2.000	2	1.529	2	1.114	2	0.000	1	0.000	2	1.914	4	1.057	2	7.614	15

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24 BGB	1.999	2	0.532	2	0.182	2	0.000	1	0.000	2	0.284	6	1.566	2	4.563	17
25 HU	1.995	2	1.791	2	1.618	2	0.000	1	0.453	2	1.999	4	0.996	2	8.853	15
26 CUT	2.006	2	0.928	2	0.557	2	0.000	1	0.000	2	0.307	4	0.643	2	4.441	15
28 AHAI/MCI	1.955	2	0.030	2	0.000	2	0.171	1	0.000	2	0.414	4	0.790	2	3.360	15
29 Athena (ARC)	7.195	7	3.977	15	11.078	18	0.496	6	0.000	4	0.250	3	1.706	3	24.702	56
30 DP	1.949	2	0.250	2	0.000	2	0.088	1	0.176	5	0.275	4	0.741	2	3.478	18
31 prifUK KAEG	2.998	3	0.000	2	0.842	2	0.000	1	0.000	2	1.399	4	0.448	2	5.687	16
32 FRS	4.270	6	1.614	5	0.000	2	0.000	1	1.216	2	5.258	8	0.640	2	12.998	26
33 GKR	2.153	1	1.006	2	1.199	2	0.000	3	0.000	2	0.609	5	0.565	2	5.532	17
	84.798	99	47.657	104	73.234	130	10.273	82	14.247	85	49.870	152	44.023	107	324.102	759

**Appendix 1 - Dissemination activities by project partners****Conferences and events**

Name, URL (if available)	Description, URL of presentation delivered (if applicable)	Location	Date
Meeting at Cyprus Ministry of Education and Culture ( <a href="http://kebep.blogspot.com/2014/02/blogpost_24.html">http://kebep.blogspot.com/2014/02/blogpost_24.html</a> )	Presentation by Marinos Ioannides, Cyprus University of Technology, "Ways of emergence of digital cultural heritage material to Europeana through a cloud computing environment. Leaflets and posters and invitation distributed.	Nicosia, Cyprus	5 March 2014
Meetings with representatives from local historical societies	ABMR, Christian Bajomi	Västernorrland	monthly
Meeting, Awayday Fondazione Ranieri di Sorbello	Speech of Enrico Speranza on LoCloud Project	Tuoro (Pg), Italy	14 March 2014
Meeting with Kamra (Slovenian portal for local cultural history) content providers	Presentation of progress of LoCloud and benefits for Slovenia	Celje, Slovenia	17 March 2014
Kulturni bazar 2014	IPCHS representative Franc Zakrajšek presented LoCloud project	Ljubljana	18 March 2014
LOD Fagdag (focus day for Linked Open Data) <a href="http://samdok.com/presentasjonar/fagdagar-o-a-2014/">http://samdok.com/presentasjonar/fagdagar-o-a-2014/</a>	organized by Kultur- og Naturreiser, a project run by the Norwegian Arts Council, and NRA	Oslo, Norway	19 March 2014
Annual General meeting of the Archives of Norway	<a href="http://sara4/sara/Aktuelt-og-nyheter/Nyheter/Fellessamling-for-Arkivverket-Gardermoen-20.-og-21.-mars">http://sara4/sara/Aktuelt-og-nyheter/Nyheter/Fellessamling-for-Arkivverket-Gardermoen-20.-og-21.-mars</a>	Oslo, Norway	20-21 March 2014

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Name, URL (if available)	Description, URL of presentation delivered (if applicable)	Location	Date
Meeting at Town Hall of Municipality of Limassol.	Presentation by Marinos Ioannides: "The emergence of photographic Archive of Limassol Municipality in Europeana, through LoCloud	Limassol, Cyprus	21 March 2014
Europeana Conference 2014 in Berlin	Presentation by Christian M. Stracke "LoCloud for Europeana: How can SMS & end users benefit from heaven?" <a href="http://www.armubi.de/tagung2014/downloads/LoCloud.pdf">http://www.armubi.de/tagung2014/downloads/LoCloud.pdf</a>	Berlin, Germany	20-21 March 2014
Librarians Association (Knjižničarsko društvo Rijeka) <a href="http://kdr.hr/">http://kdr.hr/</a>	Presentation by Andreja Silić Švonja, Rijeka City Library at the University Library Rijeka 'Digitalization and multiple choices - example of the SveVID digital library' LoCloud video presented	Rijeka, Croatia	25 March 2014
Digikult 2014 <a href="http://digikult.se/">http://digikult.se/</a>	Presentation by Christian Bajomi and Lina Marklund	Göteborg, Sweden	26-7 March 2014
Student scientific conference 2014 <a href="http://www.fns.uniba.sk/?svk">http://www.fns.uniba.sk/?svk</a>	Poster, personal discussions and press leaflets distribution	Bratislava, Slovakia	9 April 2014
Institute for Archaeology (IfA) <a href="http://www.archaeologists.net/conference2014/">http://www.archaeologists.net/conference2014/</a>	Presentation by Holly Wright, ADS: 'Navigating Collaborative European Projects in Archaeology' Leaflets distributed	Glasgow, UK	9 April 2014
4th Festival of Croatian digitization projects <a href="http://dfest.nsk.hr/">http://dfest.nsk.hr/</a>	<a href="#">Presentation by Andreja Silić Švonja, Rijeka City Library at the National and University Library in Zagreb presenting SveVID digital Library and</a>	Zagreb, Croatia	10 April 2014

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Name, URL (if available)	Description, URL of presentation delivered (if applicable)	Location	Date
	<a href="http://dfest.nsk.hr/wp-content/uploads/2014/04/Andreja%20Sili%C4%87%20%C5%A0vonja.pdf">LoCloud project (“SVeVID – digitalna knjižnica Gradske knjižnice Rijeka: iskustvo i izazovi” http://dfest.nsk.hr/wp-content/uploads/2014/04/Andreja%20Sili%C4%87%20%C5%A0vonja.pdf</a>		
E-Coop Meeting	Locloud presentation to the Culture Department and E-Coop project managers. <a href="http://www.ecoopproject.eu/">http://www.ecoopproject.eu/</a>	Bordeaux, France	11 April 2014
Europeana Day <a href="http://dfest.nsk.hr/wp-content/uploads/2014/03/Europeana-Day_programme2.pdf">http://dfest.nsk.hr/wp-content/uploads/2014/03/Europeana-Day_programme2.pdf</a>	Croatian Experience with Europeana: benefits and obstacles in Cooperation (Andreja Silić Švonja, Rijeka City Library participated among other participants from Croatiaa)	Zagreb, Croatia	11 April 2014
Lecture, Università degli Stranieri, Perugia	Speech by Giulia Coletti on LoCloud Project as part of a PhD of ‘Italianistica’ lesson about digital libraries in the contemporary age.	Perugia, Italy	16 April 2014
Europeana an open window to the European culture – an open meeting	LoCloud project <a href="http://www.libvar.bg/conferences/Europeana_15042014/LoCloud.pdf">http://www.libvar.bg/conferences/Europeana_15042014/LoCloud.pdf</a>	Varna, Bulgaria	15 April 2014
Computer Applications in Archaeology (CAA) <a href="http://caa2014.sciencesconf.org/">http://caa2014.sciencesconf.org/</a>	Presentation by Michael Charno, ADS: ‘ADS Resources Online’	Paris, France	22 April 2014
EGU General assembly 2014 <a href="http://www.egu2014.eu/">http://www.egu2014.eu/</a>	Presentation, personal discussions and leaflets distribution	Vienna, Austria	27 April - 2 May 2014
3 <sup>rd</sup> annual International Conference LINQ 2014 <a href="http://www.learning-innovations.eu/">http://www.learning-innovations.eu/</a>	LoCloud Project presentation by Tatiana Shamarina-Heidenreich, University of Duisburg-Essen, Germany	Rethymnon, Greece	8 May 2014
Аутоматизација пословања школске	Predrag Djukic from BGB, presented the project to	Valjevo,	12.May

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Name, URL (if available)	Description, URL of presentation delivered (if applicable)	Location	Date
библиотеке (School library automation seminar) <a href="http://www.maticnabiblioteka-va.org.rs/dogadjanja.htm">http://www.maticnabiblioteka-va.org.rs/dogadjanja.htm</a>	the participants of the Seminar: <a href="http://www.slideshare.net/PredragDjukic1/lo-cloud-predrag-djukic-valjvo-12052014">http://www.slideshare.net/PredragDjukic1/lo-cloud-predrag-djukic-valjvo-12052014</a>	Serbia	2014
Meeting with partners – the content providers	Presentation of the LoCloud – goals, progress and achievements.	Varna, Bulgaria	15 May 2014
BiblioPublica National Conference of Librarians from Public libraries in Romania <a href="http://www.anbpr.org.ro/index.php/conferinte">http://www.anbpr.org.ro/index.php/conferinte</a>	Romanian collection in Europeana (Colecții digitale românești în Europeana) <a href="http://www.bjc.ro/new/files/proiecte-in-derulare/prezentare_conferinta_bistrita_sorina_stanca.pdf">http://www.bjc.ro/new/files/proiecte-in-derulare/prezentare_conferinta_bistrita_sorina_stanca.pdf</a>	Bistrita, Romania	15 May 2014
Cloud Computing Uptake in the Public Sector European Commission Workshop <a href="http://ec.europa.eu/digital-agenda/en/news/cloud-computing-uptake-public-sector">http://ec.europa.eu/digital-agenda/en/news/cloud-computing-uptake-public-sector</a>	Presentation by Walter Koch, AIT: 'CLOUD INITIATIVES IN VARIOUS SOCIETAL DOMAINS: culture: LoCloud', <a href="http://ec.europa.eu/information_society/newsroom/cf/document.cfm?action=display&amp;doc_id=5532">http://ec.europa.eu/information_society/newsroom/cf/document.cfm?action=display&amp;doc_id=5532</a> Presentation, Leaflets distributed	Brussels, Belgium	20 May 2014
NPU Workshop of GIS editors	Presentation by Irena Blažková and Zuzana Syrová on LoCloud and CARARE projects "Portál Europeana, evropské projekty CARARE a LoCloud – inspirace pro informační systémy památkové péče"	Ostrava, Důl Michal, Czech Republic	21-23 May 2014
Session of Commissione Case Museo Icom Italia	Speech of Claudia Pazzini on LoCloud Project at Fondazione Pini; Session of Commissione Case Museo Icom Italia; leaflets and posters distributed.	Milan, Italy	24 May 2014
University of Macedonia	Presentation regarding LoCloud project outline and objectives in University of Macedonia, Information	Thessaloniki, Greece	5 June 2014

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Name, URL (if available)	Description, URL of presentation delivered (if applicable)	Location	Date
	Management Laboratory.		
Biblionet 2014, annual conference of Serbian parent libraries <a href="http://www.gbns.rs/index1.html">http://www.gbns.rs/index1.html</a> Predrag Djukic and Zlatko Ahmić from BGB, presented the project of the Conference	<a href="http://www.slideshare.net/PredragDjukic1/predrag-djukic-and-zlatko-ahmc-bgb-ima-li-oblaka-nad-srbijom">http://www.slideshare.net/PredragDjukic1/predrag-djukic-and-zlatko-ahmc-bgb-ima-li-oblaka-nad-srbijom</a>	Novi Sad, Serbia	5-6. June 2014
Avdelingsseminar – Seminar of the conservation and supervision department of NRA	Status about LoCloud with 2 presentations by Gunnar Urtegaard and Silvia Alfreider	Oslo, Norway	10 June 2014
National Library of Greece	Presentation regarding LoCloud project outline and objectives in the National Library of Greece IT personnel.	Athens, Greece	11 June 2014
Private Archives in Norway, organized by NRA	<a href="http://samdok.com/presentasjoner/fagdagar-o-a-2014/">http://samdok.com/presentasjoner/fagdagar-o-a-2014/</a>	Oslo, Norway	16 June 2014
Operational Digital Survey Committee	Presentation of LoCloud at an Operational Digital Survey Committee session (vice president in charge).	Bordeaux, France	17 June 2014
LOD Fagdag (focus day for Linked Open Data) organized by Kultur- og Naturreiser, a project run by the Norwegian Arts Council, the Norwegian Archive Authority (partner 1, NRA) <a href="http://samdok.com/presentasjoner/fagdagar-o-a-2014/">http://samdok.com/presentasjoner/fagdagar-o-a-2014/</a>	Presentation of how LOD has been used in the Geocoding Application (part of D3.2, Geolocation Enrichment Tools)	Oslo, Norway	18 June 2014
Aristotle University	Presentation on LoCloud project (outline and objectives) at Aristotle University, Department of Informatics.	Thessaloniki, Greece	1 July 2014
Digital Heritage 2014: Digital Communities in	Leaflets distributed	York, UK	12 July



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Name, URL (if available)	Description, URL of presentation delivered (if applicable)	Location	Date
Action <a href="http://www.york.ac.uk/digital-heritage/events/cdh2014/">http://www.york.ac.uk/digital-heritage/events/cdh2014/</a>			2014
Fagdag Geodatabaser (focus day about Geodatabase, organized by NRA)	<a href="http://arkivverket.no/arkivverket/Arkivverket/Om-oss/Fagdager-seminarer/Geodatabaser">http://arkivverket.no/arkivverket/Arkivverket/Om-oss/Fagdager-seminarer/Geodatabaser</a>	Oslo, Norway	2 August 2014

**Publications**

Title, URL	Authors	Date	Place - City, Country (if applicable)	Type
Changing the trajectory: quality for opening up education, [official proceedings of the International EIF/LINQ Conference 2014, held in Crete, Greece, on 7th - 9th of May 2014] / Christian M. Stracke ... (ed.), Berlin: Logos Verl, 2014, p.196 <a href="http://www.learning-innovations.eu/sites/learning-innovations.eu/files/2014/LINQ_2014_Proceedings_final.pdf">http://www.learning-innovations.eu/sites/learning-innovations.eu/files/2014/LINQ_2014_Proceedings_final.pdf</a>	Christian M. Stracke ... (ed.) UDE	2014	Berlin, Germany: Logos Publishing house, Germany, ISBN:978-3-8325-3686-2	Project description with contact to the project coordinator
Article about HPN microservice "Beyond the space: the LoCloud Historical Place Names micro-service" (part of LoCloud Newsletter No. 3) <a href="http://www.agiosathanasios.org.cy/uploadfil">p://www.agiosathanasios.org.cy/uploadfil</a>	Laužikas, R. and Vosyliūtė, I., VUKF	August 2014	Vilnius, Lithuania	Newsletter article
	2 articles by Municipality of	August	Limassol, Cyprus	Newspaper

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Title, URL	Authors	Date	Place - City, Country (if applicable)	Type
es/%CE%95%CF%86%CE%B7%CE%BC%CE%B5%CF%81%CE%AF%CE%B4%CE%B1/Efimerida%208-2014.pdf	Agios Athanasios news paper, referencing the collaboration with CUT into LoCloud Project context and Digitalization of the Municipality	2014		
“Om LoCloud”; (about LoCloud) <a href="http://samdok.com/nytt-fra-prosjektene/locloud/">http://samdok.com/nytt-fra-prosjektene/locloud/</a>	Silvia Alfreider, NRA	Continuous	online	blog
“Geocoding” <a href="http://samdok.com/2014/09/10/geocoding/">http://samdok.com/2014/09/10/geocoding/</a>	Silvia Alfreider, NRA	Continuous	online	blog
”En løsning som kan gi mer mangfoldig innhold på nettet?” <a href="http://samdok.com/2014/09/05/en-losning-som-kan-gi-mer-mangfoldig-innhold-pa-nettet/">http://samdok.com/2014/09/05/en-losning-som-kan-gi-mer-mangfoldig-innhold-pa-nettet/</a>	Silvia Alfreider, NRA	Continuous	online	blog

**Press, news and social media**

Activity	Who	When	Type
Regular retweets of LoCloud Twitter account tweets	all	Ongoing	Tweets
LoCloud Newsletter distributed via Facebook and Twitter.	MDR, 2Culture, NRA	9 <sup>th</sup> August 2014	Email distribution

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LoCloud Video distributed via Facebook and Twitter.	MDR, 2Culture, NRA	25 <sup>th</sup> March 2014	Facebook, Twitter
LoCloud Video advertised on ADS website RSS feed and home page.	ADS	25 <sup>th</sup> March 2014	Online
LoCloud new deliverables ( <a href="http://www.locloud.eu/News/LoCloud-new-deliverables">http://www.locloud.eu/News/LoCloud-new-deliverables</a> ) advertised on Facebook and Twitter account.	MDR, 2Culture, NRA	4 <sup>th</sup> March 2014	Facebook, Twitter
"Om LoCloud"; (about LoCloud) <a href="http://samdok.com/nytt-fra-prosjektene/locloud/">http://samdok.com/nytt-fra-prosjektene/locloud/</a>	Silvia Alfreider, NRA	Continuous	blog
"Geocoding" <a href="http://samdok.com/2014/09/10/geocoding/">http://samdok.com/2014/09/10/geocoding/</a>	Silvia Alfreider, NRA	Continuous	blog
"En løsning som kan gi mer mangfoldig innhold på nettet?" <a href="http://samdok.com/2014/09/05/en-losning-som-kan-gi-mer-mangfoldig-innhold-pa-nettet/">http://samdok.com/2014/09/05/en-losning-som-kan-gi-mer-mangfoldig-innhold-pa-nettet/</a>	Silvia Alfreider, NRA	Continuous	blog
<a href="http://twitter.com/vbanos">http://twitter.com/vbanos</a>	Future Library		Twitter.
"Quality in Learning, Education and Training" (QLET) Facebook Account <a href="https://www.facebook.com/Q4LET">https://www.facebook.com/Q4LET</a>	UDE	Continuous	Facebook
"Quality in Learning, Education and Training" (QLET) Twitter Account - @Q4LET	UDE	Continuous	Twitter
	UDE	Continuous	eLearning and

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Open Education Europa - <a href="http://openeducationeuropa.eu/">http://openeducationeuropa.eu/</a>			open education news site, with blog posts, news items, and event pages
WIP UDE Website - <a href="http://www.wip.wiwi.uni-due.de/forschung/forschungsprojekte/locloud/">http://www.wip.wiwi.uni-due.de/forschung/forschungsprojekte/locloud/</a>	UDE	Continuous	Online
"Quality in Learning, Education, and Training" on Scoop.it - <a href="http://www.scoop.it/t/competence-development">http://www.scoop.it/t/competence-development</a>	UDE	Continuous	News
TELIT Website: Homepage of the TELIT Institute - <a href="https://www.telit.wiwi.uni-due.de/">https://www.telit.wiwi.uni-due.de/</a>	UDE	Continuous	Project description, information, and links to project pages